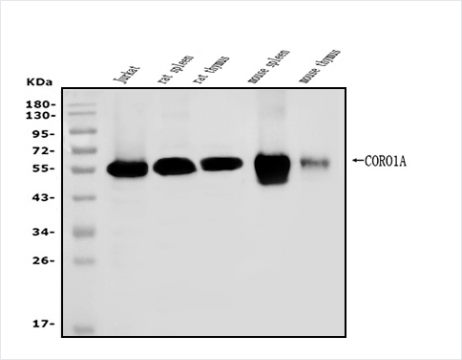
Coronin 1a/TACO/CORO1A (CORO1A) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

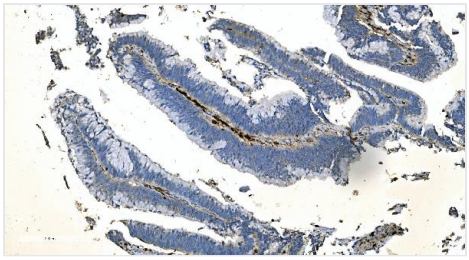
Product Name	Coronin 1a/TACO/CORO1A, Polyclonal Antibody
Full Product Name	Anti-Coronin 1a/TACO/CORO1A Antibody
Product Gene Name	anti-CORO1A antibody
Product Synonym Names	CORO1A; CORO1; Coronin-1A; Coronin-like protein A; Clipin-A; Coronin-like protein p57; Tryptophan aspartate-containing coat protein; TACO; coronin 1A
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for Coronin 1a/TACO/CORO1A detection.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	51,026 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (30194731..30200397). Location: 16p11.2
OMIM	605000
3D Structure	ModBase 3D Structure for P31146
Immunogen	E Coli-derived human Coronin 1a/TACO/CORO1A recombinant protein (Position: E173-K461).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (MBS176453) for IHC(P).
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-CORO1A antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Flow Cytometry (FC/FACS/FCM), Direct ELISA (EIA)
Application Notes for anti-CORO1A antibody	WB: 0.25-0.5ug/ml|Human, Mouse, Rat| IHC-P: 1-2ug/ml|Human| FC/FACS/FCM: 1-3ug/1x106 cells|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-CORO1A antibody	Coronin-1A is a protein that in humans is encoded by the CORO1A gene. This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. Alternative splicing results in multiple transcript variants. A related pseudogene has been defined on chromosome 16.

Product References and Citations for anti-CORO1A antibody	1. Ferrari, G., Langen, H., Naito, M., Pieters, J. A coat protein on phagosomes involved in the intracellular survival of mycobacteria. Cell 97: 435-447, 1999. 2. Foger, N., Rangell, L., Danilenko, D. M., Chan, A. C. Requirement for coronin 1 in T lymphocyte trafficking and cellular homeostasis. Science 313: 839-842, 2006. 3. Haraldsson, M. K., Louis-Dit-Sully, C. A., Lawson, B. R., Sternik, G., Santiago-Raber, M. -L., Gascoigne, N. R. J., Theofilopoulos, A. N., Kono, D. H. The lupus-related Lmb3 locus contains a disease-suppressing coronin-1A gene mutation. Immunity 28: 40-51, 2008.
Other Notes	Small volumes of anti-CORO1A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CORO1A purchase	MBS1753651 is an antibody targeting CORO1A. Also known as Anti-Coronin 1a/TACO/CORO1A Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



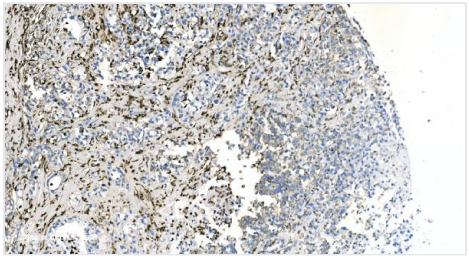
Western Blot (WB) of anti-CORO1A antibody

Figure 1. Western blot analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human Jurkat whole cell lysatesLane 2: rat spleen tissue lysatesLane 3: rat thymus tissue lysatesLane 4: mouse spleen tissue lysatesLane 5: mouse thymus tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Coronin 1a/TACO/CORO1A antigen affinity purified polyclonal antibody (Catalog # MBS1753651) at 0. 5 ?g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for Coronin 1a/TACO/CORO1A at approximately 57KD. The expected band size for Coronin 1a/TACO/CORO1A is at 57KD.



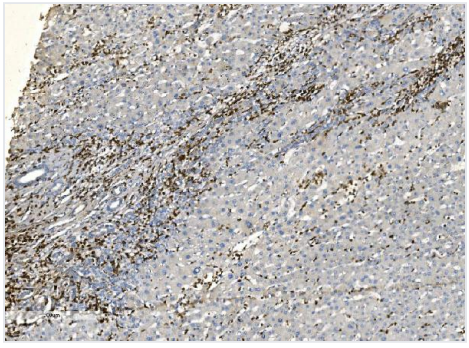
Immunohistochemistry (IHC) of anti-CORO1A antibody

Figure 2. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human colonic adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.



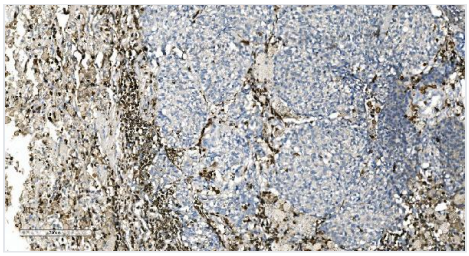
Immunohistochemistry (IHC) of anti-CORO1A antibody

Figure 3. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.

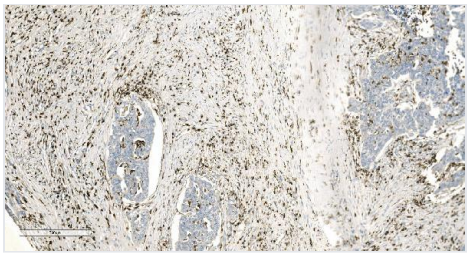


Immunohistochemistry (IHC) of anti-CORO1A antibody

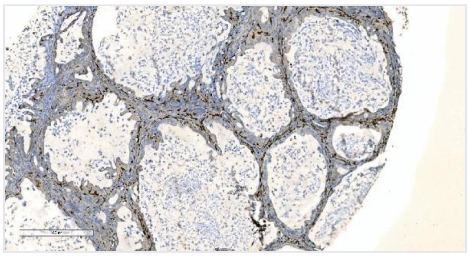
Figure 4. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.



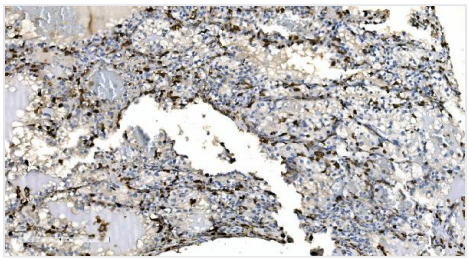
Immunohistochemistry (IHC) of anti-CORO1A antibody
Figure 5. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-CORO1A antibody
Figure 6. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human ovarian serous adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-CORO1A antibody
Figure 7. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-CORO1A antibody
Figure 8. IHC analysis of Coronin 1a/TACO/CORO1A using anti-Coronin 1a/TACO/CORO1A antibody (MBS1753651).Coronin 1a/TACO/CORO1A was detected in paraffin-embedded section of human renal clear cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-Coronin 1a/TACO/CORO1A Antibody (MBS1753651) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CORO1A. It may not necessarily be applicable to this product.

NCBI GI #	300934762
NCBI GeneID	11151
NCBI Accession #	NP_001180262.1
UniProt Primary Accession #	P31146
UniProt Secondary Accession #	Q2YD73; B2RBL1
UniProt Related Accession #	P31146
GenBank Nucleotide #	NM_001193333.2
NCBI Official Full Name	coronin-1A
NCBI Official Synonym Full Names	coronin, actin binding protein, 1A
NCBI Official Symbol	CORO1A
NCBI Official Synonym Symbols	p57; TACO; CLABP; HCORO1; CLIPINA
UniProt Protein Name	Coronin-1A
UniProt Synonym Protein Names	Coronin-like protein A; Clipin-A; Coronin-like protein p57; Tryptophan aspartate-containing coat protein

Protein Family	Coronin
UniProt Gene Name	CORO1A
UniProt Synonym Gene Names	CORO1; Clipin-A; TACO
UniProt Entry Name	COR1A_HUMAN
NCBI Protein Information	coronin-1A; clipin-A; coronin-like protein A; coronin-like protein p57; tryptophan aspartate-containing coat protein
NCBI Summary for CORO1A	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. Alternative splicing results in multiple transcript variants. A related pseudogene has been defined on chromosome 16. [provided by RefSeq, Sep 2010]
UniProt Comments for CORO1A	coronin 1A: May be a crucial component of the cytoskeleton of highly motile cells, functioning both in the invagination of large pieces of plasma membrane, as well as in forming protrusions of the plasma membrane involved in cell locomotion. In mycobacteria- infected cells, its retention on the phagosomal membrane prevents fusion between phagosomes and lysosomes. Belongs to the WD repeat coronin family. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cortical actin cytoskeleton; protein complex; early endosome; immunological synapse; actin filament; phagocytic vesicle; intercellular junction; phagocytic vesicle membrane; membrane; axon; lamellipodium; cytoplasm; plasma membrane; nucleus; phagocytic cup Molecular Function: actin filament binding; protein C-terminus binding; protein binding; protein homodimerization activity; cytoskeletal protein binding; phosphoinositide 3-kinase binding Biological Process: negative regulation of vesicle fusion; leukocyte chemotaxis; actin filament organization; regulation of release of sequestered calcium ion into cytosol; cell-substrate adhesion; phagocytosis; uropod organization and biogenesis; phagolysosome formation; regulation of cell shape; regulation of actin filament polymerization; positive chemotaxis; homeostasis of number of cells within a tissue; calcium ion transport; negative regulation of actin nucleation; innate immune response; positive regulation of T cell proliferation; T cell homeostasis; negative regulation of neuron apoptosis; cell motility; actin cytoskeleton organization and biogenesis; positive regulation of cell migration Disease: Immunodeficiency 8
Research Articles on CORO1A	**1.** Constitutive turnover of phosphorylation at Thr-412 of p57/coronin-1 regulates its interaction with actin.
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