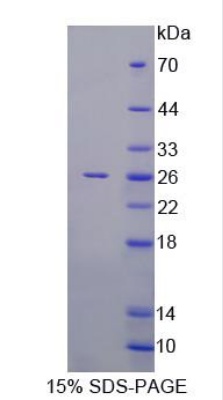
Coronin 1a (CORO1A) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Coronin 1A (CORO1A), Recombinant Protein
Full Product Name	Recombinant Coronin 1A (CORO1A)
Product Gene Name	CORO1A recombinant protein
Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. MSRQVVRSS K FRHVFGQPAK ADQCYEDVRV SQTTWDSGFC AVNPKFMALI CEASGGGAFL VLPLGKTGRV DKNVPLVCGH TAPVLDIAWC PHNDNVIASG SEDCTVMVWE IPDGGLVLPL REPVVTLEGH TKRVGIVAWH PTAQNVLLSA GCDNVILVWD VGTGAAVLTL GPDVHPDTIY SVDWSRDGAL ICTSCRDKRV RVIEMSRQVV RSSK FRHVFGQPAK ADQCYEDVRV SQTTWDSGFC AVNPKFMALI CEASGGGAFL VLPLGKTGRV DKNVPLVCGH TAPVLDIAWC PHNDNVIASG SEDCTVMVWE IPDGGLVLPL REPVVTLEGH TKRVGIVAWH PTAQNVLLSA GCDNVILVWD VGTGAAVLTL GPDVHPDTIY SVDWSRDGAL ICTSCRDKRV RVIE
Host	Host: E Coli Source: Prokaryotic expression
Form/Format	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Purity/Purification	>90%
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: CORO1A (MBS2027537) Immunogen: CORO1A (MBS2029984)
Matching Pairs	APC-CY7 Conjugated Antibody: CORO1A (MBS2081264) Immunogen: CORO1A (MBS2029984)
Matching Pairs	PE Conjugated Antibody: CORO1A (MBS2081265) Immunogen: CORO1A (MBS2029984)
Matching Pairs	APC Conjugated Antibody: CORO1A (MBS2081266) Immunogen: CORO1A (MBS2029984)
Matching Pairs	Cy3 Conjugated Antibody: CORO1A (MBS2081267) Immunogen: CORO1A (MBS2029984)
Matching Pairs	FITC Conjugated Antibody: CORO1A (MBS2081268) Immunogen: CORO1A (MBS2029984)
Matching Pairs	HRP Conjugated Antibody: CORO1A (MBS2081269) Immunogen: CORO1A (MBS2029984)
Matching Pairs	Biotin Conjugated Antibody: CORO1A (MBS2096605) Immunogen: CORO1A (MBS2029984)
Molecular Weight	51,026 Da
OMIM	605000
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Predicted Molecular Mass	25.7kDa

Accurate Molecular Mass (KD)	26kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Expression System	Prokaryotic expression
Tag	two N-terminal Tags, His-tag and S-tag
Organism Species	Rattus norvegicus (Rat)
Fragment	Met1~Glu204
Usage	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for CORO1A recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for CORO1A recombinant protein	MBS2029984 is a recombinant protein targeting CORO1A. Also known as Recombinant Coronin 1A (CORO1A). Host: E Coli Source: Prokaryotic expression.
Other Notes	Small volumes of CORO1A recombinant protein 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.



SDS-Page of CORO1A recombinant protein

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 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; IMD8; 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; TACO
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
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: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: phagocytic vesicle membrane; cortical actin cytoskeleton; protein complex; membrane; axon; lamellipodium; early endosome; cytoplasm; plasma membrane; immunological synapse; actin filament; intercellular junction; phagocytic vesicle; 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; phagocytosis; cell-substrate adhesion; 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; negative regulation of actin nucleation; calcium ion transport; 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.** mutatiions result in abnormal T-cells, severe combined immunodeficiency of an epidermodysplasia verruciformis-human papilloma virus mucocutaneous syndrome with B and NK defects and shortened telomeres
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