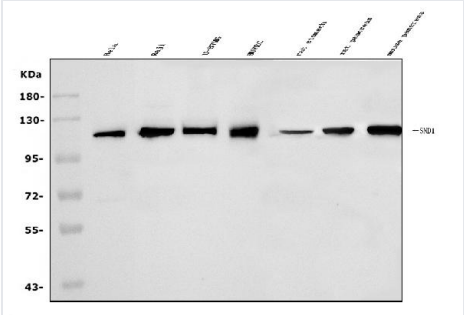
SND1 Antibody – Rabbit Polyclonal

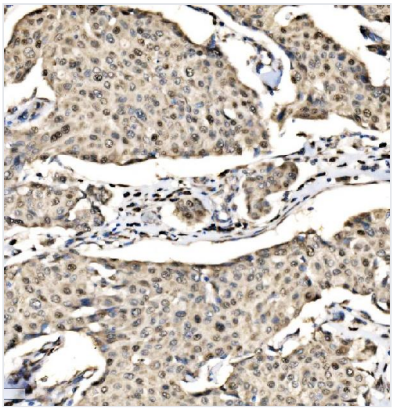
PRODUCT OVERVIEW

Product Name	SND1, Polyclonal Antibody
Full Product Name	Anti-SND1 Antibody
Product Gene Name	anti-SND1 antibody
Product Synonym Names	SND1; TDRD11; Staphylococcal nuclease domain-containing protein 1; EC 3. 1. 31. 1; 100 kDa coactivator; EBNA2 coactivator p100; Tudor domain-containing protein 11; p100 co-activator; staphylococcal nuclease and tudor domain containing 1
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 SND1 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	101,997 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (127292043..127732659). Location: 7q31.3
OMIM	602181
3D Structure	ModBase 3D Structure for Q7KZF4
Immunogen	E Coli-derived human SND1 recombinant protein (Position: Q20-D204).
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) and ICC.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SND1 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS/FCM), Direct ELISA (EIA)
Application Notes for anti-SND1 antibody	WB: 0.1-0.25ug/ml|Human, Mouse, Rat| IHC-P: 2-5ug/ml|Human, Mouse| ICC/IF: 5ug/ml|Human| FC/FACS/FCM: 1-3ug/1x106 cells|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-SND1 antibody	Staphylococcal nuclease domain-containing protein 1 also known as 100 kDa coactivator or Tudor domain-containing protein 11 (TDRD11) is a protein that in humans is encoded by the SND1 gene. This gene encodes a transcriptional co-activator that interacts with the acidic domain of Epstein-Barr virus nuclear antigen 2 (EBNA 2), a transcriptional activator that is required for B-lymphocyte transformation. Other transcription factors that interact with this protein are signal transducers and activators of transcription, STATs. This protein is also thought to be essential for normal cell growth. A similar protein in mammals and other organisms is a component of the RNA-induced silencing complex (RISC).

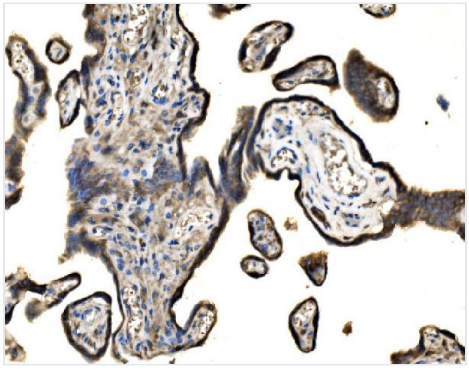
Product References and Citations for anti-SND1 antibody	1. Callebaut, I., Mornon, J. P. The human EBNA-2 coactivator p100: multidomain organization and relationship to the staphylococcal nuclease fold and to the tudor protein involved in Drosophila melanogaster development. Biochem. J. 321: 125-132, 1997. 2. Caudy, A. A., Ketting, R. F., Hammond, S. M., Denli, A. M., Bathoorn, A. M. P., Tops, B. B. J., Silva, J. M., Myers, M. M., Hannon, G. J., Plasterk, R. H. A. A micrococcal nuclease homologue in RNAi effector complexes. Nature 425: 411-414, 2003. 3. Elbarbary, R. A., Miyoshi, K., Myers, J. R., Du, P., Ashton, J. M., Tian, B., Maquat, L. E. Tudor-SN-mediated endonucleolytic decay of human cell microRNAs promotes G1/S phase transition. Science 356: 859-862, 2017.
Other Notes	Small volumes of anti-SND1 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 SND1 purchase	MBS1753537 is an antibody targeting SND1. Reactive in Human, Mouse, Rat. Host: Rabbit.



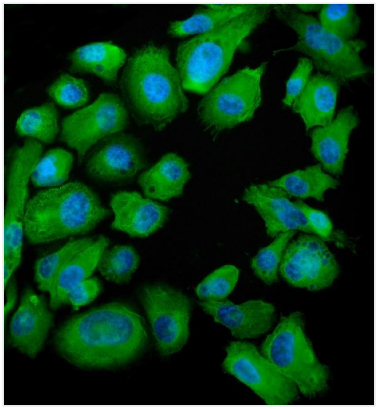
Western Blot (WB) of anti-SND1 antibody
Figure 1. Western blot analysis of SND1 using anti-SND1 antibody (MBS1753537).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human Raji whole cell lysatesLane 3: human U-87MG whole cell lysatesLane 4: human HUVEC whole cell lysatesLane 5: rat stomach tissue lysatesLane 6: rat pancreas tissue lysatesLane 7: mouse pancreas 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-SND1 antigen affinity purified polyclonal antibody (Catalog # MBS1753537) at 0. 25 ?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 SND1 at approximately 110KD. The expected band size for SND1 is at 110KD.



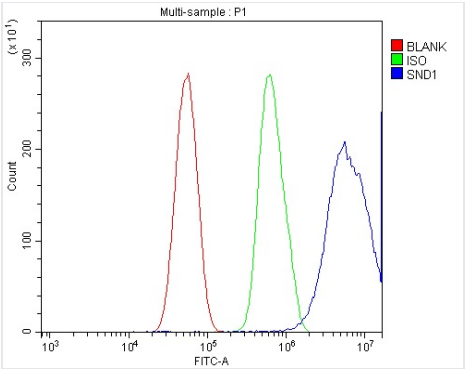
Immunohistochemistry (IHC) of anti-SND1 antibody
Figure 2. IHC analysis of SND1 using anti-SND1 antibody (MBS1753537).SND1 was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2?g/ml rabbit anti-SND1 Antibody (MBS1753537) 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-SND1 antibody
Figure 3. IHC analysis of SND1 using anti-SND1 antibody (MBS1753537).SND1 was detected in paraffin-embedded section of human placenta 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-SND1 Antibody (MBS1753537) 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.



Immunofluorescence (IF) of anti-SND1 antibody
Figure 4. IF analysis of SND1 using anti- SND1 antibody (MBS1753537).SND1 was detected in immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5?g/mL rabbit anti- SND1 Antibody (MBS1753537) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry (FC/FACS) of anti-SND1 antibody
Figure 5. Flow Cytometry analysis of U87 cells using anti-SND1 antibody (MBS1753537).Overlay histogram showing U87 cells stained with MBS1753537 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SND1 Antibody (MBS1753537, 1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SND1. It may not necessarily be applicable to this product.

NCBI GI #	77404397
NCBI GeneID	27044
NCBI Accession #	NP_055205.2
UniProt Primary Accession #	Q7KZF4
UniProt Secondary Accession #	Q13122; Q96AG0
UniProt Related Accession #	Q7KZF4
GenBank Nucleotide #	NM_014390.2
NCBI Official Full Name	staphylococcal nuclease domain-containing protein 1
NCBI Official Synonym Full Names	staphylococcal nuclease and tudor domain containing 1
NCBI Official Symbol	SND1
NCBI Official Synonym Symbols	p100; TDRD11
UniProt Protein Name	Staphylococcal nuclease domain-containing protein 1
UniProt Synonym Protein Names	100 kDa coactivator; EBNA2 coactivator p100; Tudor domain-containing protein 11; p100 co-activator
Protein Family	Staphylococcal nuclease domain-containing protein
UniProt Gene Name	SND1
UniProt Synonym Gene Names	TDRD11
UniProt Entry Name	SND1_HUMAN
NCBI Protein Information	staphylococcal nuclease domain-containing protein 1; SND1-BRAF fusion; p100 co-activator; 100 kDa coactivator; EBNA2 coactivator p100; p100 EBNA2 co-activator; EBNA-2 co-activator (100kD); tudor domain-containing protein 11; staphylococcal nuclease domain

UniProt Comments for SND1	SND1: a transcriptional coactivator for STAT6. May function as a bridging factor between STAT6 and the basal transcription machinery. Protein type: RNA-binding; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 7q31.3 Cellular Component: membrane; mitochondrion; cytoplasm; melanosome; nucleus Molecular Function: protein binding; nuclease activity; transcription cofactor activity Biological Process: osteoblast differentiation; regulation of transcription, DNA-dependent; viral reproduction; transcription, DNA-dependent; RNA-mediated gene silencing
Research Articles on SND1	**1.** a transcriptional network associated to the key transcription factors NF-kappaB, Sp1 and NF-Y that operates in the control of the SND1 gene expression
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