

Rabbit MitoNEET/CISD1 Polyclonal Antibody | anti-CISD1 antibody

Anti-MitoNEET/CISD1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19293	Rabbit	Human, Mouse, Rat, Monkey	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MitoNEET/CISD1; Polyclonal Antibody; Anti-MitoNEET/CISD1 Antibody; CISD1; C10orf70; ZCD1; MDS029; CDGSH iron-sulfur domain-containing protein 1; MitoNEET; CDGSH iron sulfur domain 1; anti-CISD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for MitoNEET/CISD1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-CISD1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.1-0.25ug/ml Human, Mouse, Rat, Monkey IHC-P: 2-5ug/ml Human FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human MitoNEET/CISD1 recombinant protein (Position: Y28-E93).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
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.

IMAGES



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of PC-3 cells using anti-MitoNEET/CISD1 antibody (AAA19293). Overlay histogram showing PC-3 cells stained with AAA19293 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MitoNEET/CISD1 Antibody (AAA19293, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



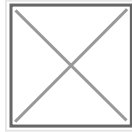
IHC (Immunohistochemistry)

Figure 5. IHC analysis of MitoNEET/CISD1 using anti-MitoNEET/CISD1 antibody (AAA19293). MitoNEET/CISD1 was detected in paraffin-embedded section of human rectal 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 2µg/ml rabbit anti-MitoNEET/CISD1 Antibody (AAA19293) 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 Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



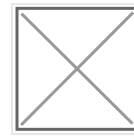
IHC (Immunohistochemistry)

Figure 4. IHC analysis of MitoNEET/CISD1 using anti-MitoNEET/CISD1 antibody (AAA19293).MitoNEET/CISD1 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 2μg/ml rabbit anti-MitoNEET/CISD1 Antibody (AAA19293) 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 Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



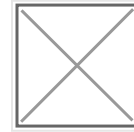
IHC (Immunohistochemistry)

Figure 2. IHC analysis of MitoNEET/CISD1 using anti-MitoNEET/CISD1 antibody (AAA19293).MitoNEET/CISD1 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 2μg/ml rabbit anti-MitoNEET/CISD1 Antibody (AAA19293) 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 Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 3. IHC analysis of MitoNEET/CISD1 using anti-MitoNEET/CISD1 antibody (AAA19293).MitoNEET/CISD1 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 2μg/ml rabbit anti-MitoNEET/CISD1 Antibody (AAA19293) 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 Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



WB (Western Blot)

Figure 1. Western blot analysis of MitoNEET/CISD1 using anti-MitoNEET/CISD1 antibody (AAA19293).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 50ug of sample under reducing conditions.Lane 1: human SW620 whole cell lysatesLane 2: monkey heart tissue lysatesLane 3: rat heart tissue lysatesLane 4: rat kidney tissue lysatesLane 5: mouse heart 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-MitoNEET/CISD1 antigen affinity purified polyclonal antibody (Catalog # AAA19293) at 0. 25 μg/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 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # with Tanon 5200 system. A specific band was detected for MitoNEET/CISD1 at approximately 15KD. The expected band size for MitoNEET/CISD1 is at 12KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CISD1 antibody	CISD1 is a member of the CDGSH domain-containing family and may play a role in the regulation of mitochondrial oxidative capacity. This gene encodes a protein with a CDGSH iron-sulfur domain and has been shown to bind a redox-active [2Fe-2S] cluster. The encoded protein has been localized to the outer membrane of mitochondria. Genes encoding similar proteins are located on chromosomes 4 and 17, and a pseudogene of this gene is located on chromosome 2.
References	- Colca, J. R., McDonald, W. G., Waldon, D. J., Leone, J. W., Lull, J. M., Bannow, C. A., Lund, E. T., Mathews, W. R. Identification of a novel mitochondrial protein ('mitoNEET') cross-linked specifically by a thiazolidinedione photoprobe. Am. J. Physiol. Endocr. Metab. 286: E252-60, 2004. - Hou, X., Liu, R., Ross, S., Smart, E. J., Zhu, H., Gong, W. Crystallographic studies of human MitoNEET. J. Biol. Chem. 282: 33242-33246, 2007. - Lin, J., Zhou, T., Ye, K., Wang, J. Crystal structure of human mitoNEET reveals distinct groups of iron-sulfur proteins. Proc. Nat. Acad. Sci. 104: 14640-14645, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923930
NCBI GeneID	55847
NCBI Accession #	NP_060934.1
NCBI GenBank Nucleotide #	NM_018464.4
UniProt Accession #	Q9NZ45; Q1X902
Molecular Weight	12,199 Da
NCBI Official Full Name	CDGSH iron-sulfur domain-containing protein 1

NCBI Official Synonym Full Names	CDGSH iron sulfur domain 1
NCBI Official Symbol	CISD1
NCBI Official Synonym Symbols	ZCD1; MDS029; C10orf70; mitoNEET
NCBI Protein Information	CDGSH iron-sulfur domain-containing protein 1; CDGSH iron sulfur domain-containing protein 1; zinc finger CDGSH-type domain 1; zinc finger, CDGSH-type domain 1
UniProt Protein Name	CDGSH iron-sulfur domain-containing protein 1
UniProt Gene Name	CISD1
UniProt Synonym Gene Names	C10orf70; ZCD1
UniProt Entry Name	CISD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/mitoneet-cisd1-antibody-western-blot-immunohistochemistry-flow-cytometry-direct-elisa-elisa/19293>