

Rabbit anti-Mouse, Rat CDNF Polyclonal Antibody | anti-CDNF antibody

Anti-CDNF Antibody Picoband

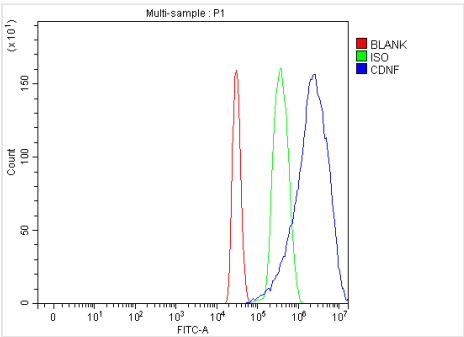
CATALOG # AAA127628	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

CDNF; Polyclonal Antibody; Anti-CDNF Antibody Picoband; Protein NDRG3; N-myc downstream-regulated gene 3 protein; NDRG3; anti-CDNF antibody

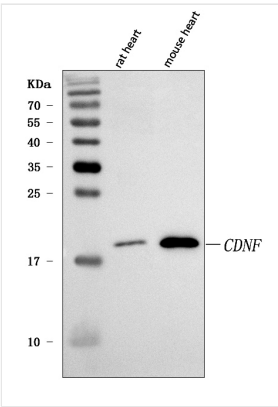
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.Highly expressed in brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CDNF antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived mouse Cdnf recombinant protein (Position: Q25-L187).
Subcellular Localization	Membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Promotes the growth of epithelial cells. May stimulate the phosphorylation of EGFR and mitogen-activated protein kinases.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-Cdnf antibody (AAA127628).Overlay histogram showing HEPA1-6 cells stained with AAA127628 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Cdnf Antibody (AAA127628, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of Cdnf using anti-Cdnf antibody (AAA127628).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 30 ug of sample under reducing conditions.Lane 1: rat heart tissue lysates,Lane 2: mouse heart tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Cdnf antigen affinity purified polyclonal antibody (#AAA127628) at 0.5ug/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 with Tanon 5200 system. A specific band was detected for Cdnf at approximately 19-20 kDa. The expected band size for Cdnf is at 21 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CDNF antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-CDNF antibody	Primary Antibodies; Cancer; Cell Biology; Cell Cycle; Cell Differentiation; Tumor Biomarkers
References	1. Lindholm, P., Voutilainen, M. H., Lauren, J., Peranen, J., Leppanen, V.-M., Andressoo, J.-O., Lindahl, M., Janhunen, S., Kalkkinen, N., Timmusk, T., Tuominen, R. K., Saarma, M. Novel neurotrophic factor CDNF protects and rescues midbrain dopamine neurons in vivo. Nature 448: 73-77, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29244056
NCBI GeneID	227526
NCBI Accession #	NP_808315.1
NCBI GenBank Nucleotide #	NM_177647.4
UniProt Accession #	Q8CC36
Molecular Weight	21,032 Da
NCBI Official Full Name	cerebral dopamine neurotrophic factor
NCBI Official Synonym Full Names	cerebral dopamine neurotrophic factor
NCBI Official Symbol	Cdnf
NCBI Official Synonym Symbols	Armetl1; 9330140G23

NCBI Protein Information	cerebral dopamine neurotrophic factor; ARMET-like protein 1; arginine-rich, mutated in early stage tumors-like 1; conserved dopamine neurotrophic factor
UniProt Protein Name	Cerebral dopamine neurotrophic factor
UniProt Gene Name	Cdnf
UniProt Synonym Gene Names	Armetl1
UniProt Entry Name	CDNF_MOUSE

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdnf-antibody-flow-cytometry-western-blot-elisa/127628>