

Rabbit anti-Mouse CNDP1 Polyclonal Antibody | anti-CNDP1 antibody

Anti-CNDP1 Antibody, Rabbit Polyclonal

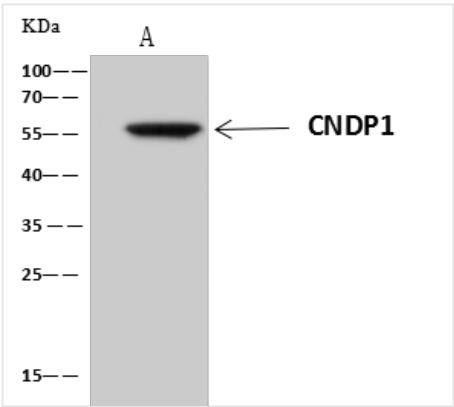
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259534	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

CNDP1; Polyclonal Antibody; Anti-CNDP1 Antibody; Rabbit Polyclonal; CNDP1 Antibody; Rabbit PAb; Antigen Affinity Purified; carnosine dipeptidase 1 (metallopeptidase M20 family); Anti-Cn1 Antibody; Anti-Cndp1 Antibody; anti-CNDP1 antibody

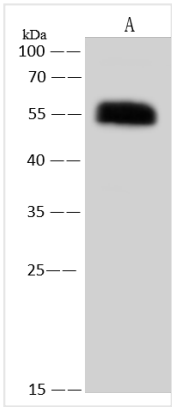
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse CNDP1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CNDP1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse CNDP1 Protein (Q8BUG2; Met1-Tyr492). CNDP1 specific IgG was purified by Mouse CNDP1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.



IP (Immunoprecipitation)

CNDP1 was immunoprecipitated using: Lane A:0.5 mg Mouse kidney Whole Cell Lysate 4 uL anti-CNDP1 rabbit polyclonal antibody and 60ug of Immunomagnetic beads Protein A/G.
Primary antibody: Anti-CNDP1 rabbit polyclonal antibody,at 1:100 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 57 kDa Observed band size :57 kDa



WB (Western Blot)

Anti-CNDP1 rabbit polyclonal antibody at 1:500 dilutionLane A: Mouse kidney tissue lysateLysates/proteins at 30ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilutionDeveloped using the ECL technique. Performed under reducing conditions.Predicted band size:57 kDaObserved band size:55 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CNDP1 antibody	CNDP1, also known as carnosine dipeptidase 1, glutamate carboxypeptidase-like protein 2 (CPGL-2) or carnosinase 1 (CN1), is a member of the M20 metalloprotease family. The CNDP1 gene contains trinucleotide (CTG) repeat length polymorphism in the coding region, which has been demonstrated to be associated with susceptibility to developing diabetic nephropathy, for carnosine protection against the adverse effects of high glucose levels on renal cells. In humans, CNDP1 is secreted from the liver into the serum. In other mammals, including rodents, CNDP1 is expressed exclusively within the kidney and lacks a signal peptide. CNDP1 protein is a secreted homodimeric dipeptidase that specifically hydrolyzes L-carnosine (beta-alanyl-L-histidine), and is identified as human carnosinase expressed in the brain. CNDP1 has been associated with diabetic nephropathy in Europeans and European Americans, but not African-Americans. It was identified and confirmed as a risk factor, were cross-sectional and mostly in patients with type 2 diabetes. The polymorphisms of CNDP1 can be excluded as a risk factor for nephropathy in type 1 diabetes. In addition, CNDP1 is also suggested to be implicated in the actions of neuroprotection and neurotransmiting.
References	Teufe. M. e. al. (2003. Sequenc. identificatio. an. caracterizatio. o. huma. carnosinas. an. . closel. relate. non-specifi. dipeptidase. . Bio. Che. 278(8):6521-31.Jansse. B. e. al. (2005. Carnosin. a. . protectiv. facto. i. diabeti. nephropathy. associatio. wit. . leucin. repea. o. th. carnosinas. gen. CNDP1. Diabete. 54(8):2320-7.Ried. E. e. al. (2007. . CT. polymorphis. i. th. CNDP. gen. determine. th. secretio. o. seru. carnosinas. i. Cos-. transfecte. cells. Diabete. 56(9):2410-3.Freedma. Bl. e. al. (2007. . leucin. repea. i. th. carnosinas. gen. CNDP. i. associate. wit. diabeti. end-stag. rena. diseas. i. Europea. Americans. Nephro. Dia. Transplan. 22(4):1131-5.Wani. K. e. al. (2008. Exclusio. o. polymorphism. i. carnosinas. gene. (CNDP. an. CNDP2. a. . caus. o. diabeti. nephropath. i. typ. . diabetes. result. o. larg. case-contro. an. follow-u. studies. Diabete. 57(9):2547-51.McDonoug. CW. e. al. (2009. Th. influenc. o. carnosinas. gen. polymorphism. o. diabeti. nephropath. ris. i. African-Americans. Hu. Genet. 126(2):265-75.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157951637
NCBI GeneID	338403
NCBI Accession #	NP_803233.2
NCBI GenBank Nucleotide #	NM_177450.4
UniProt Accession #	Q8BUG2; Q80XP5
Molecular Weight	55,090 Da
NCBI Official Full Name	beta-Ala-His dipeptidase

NCBI Official Synonym Full Names	carnosine dipeptidase 1 (metallopeptidase M20 family)
NCBI Official Symbol	Cndp1
NCBI Official Synonym Symbols	Cn1; AI746433
NCBI Protein Information	beta-Ala-His dipeptidase
UniProt Protein Name	Beta-Ala-His dipeptidase
UniProt Gene Name	Cndp1
UniProt Synonym Gene Names	Cn1

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://stage.aaabiotech.com/polyclonal/cndp1-antibody-immunoprecipitation-western-blot-elisa/259534>