

Product Name: KD-Validated CNDP2 Mouse Monoclonal Antibody**Catalog #: KVA00590**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 52.9kDa

Antigen Information

Gene Name	CNDP2 CNDP2; Carnosine Dipeptidase 2; CPGL; CN2; Peptidase A; HsT2298; PEPA; CNDP Dipeptidase 2 (Metallopeptidase M20 Family); Glutamate Carboxypeptidase-Like Protein 1;
Alternative Names	Cytosolic Non-Specific Dipeptidase; Cytosolic Nonspecific Dipeptidase; Carnosine Dipeptidase II; Threonyl Dipeptidase; Carnosinase-2; FLJ10830; HEL-S-13; Epididymis Secretory Protein Li 13; CNDP Dipeptidase; EC 3.4.13.18
Gene ID	55748.0
SwissProt ID	Q96KP4
Immunogen	Recombinant protein of human CNDP2

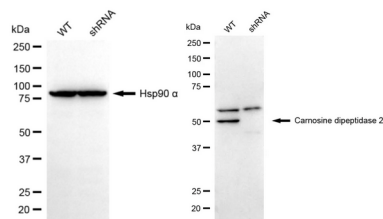
Background

CNDP2, also known as tissue carnosinase and peptidase A (EC 3.4.13.18), is a nonspecific dipeptidase rather than a selective carnosinase (Teufel et al., 2003 [PubMed 12473676]).[supplied by OMIM, Mar 2008]

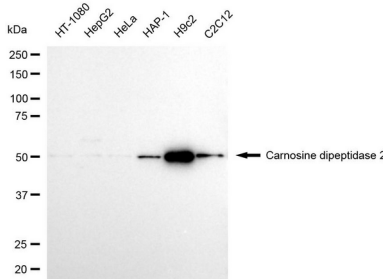
Research Area

Cell Biology

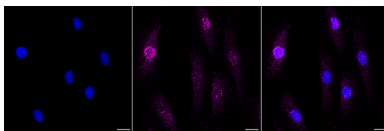
Image Data



Western blotting analysis using carnosine dipeptidase 2 antibody (KVA00590). Carnosine dipeptidase 2 expression in wild-type (WT) and carnosine dipeptidase 2 (CNDP2) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with carnosine dipeptidase 2 antibody (KVA00590, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using carnosine dipeptidase 2 antibody (KVA00590). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with carnosine dipeptidase 2 antibody (KVA00590, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with Carnosine dipeptidase 2 antibody (KVA00590, 1:500). Nuclei were stained blue with DAPI; Carnosine dipeptidase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.