10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal)

Rabbit Polyclonal Antibody
Catalog # ALS10930

Specification

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q6V1X1
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**103kDa KDa**

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - Additional Information

Gene ID 54878

Other Names
Dipeptidyl peptidase 8, DP8, 3.4.14.5, Dipeptidyl peptidase IV-related protein 1, DPRP-1, Dipeptidyl peptidase VIII, DPP VIII, Prolyl dipeptidase DPP8, DPP8, DPRP1

Target/Specificity
Human DPP8. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - Protein Information

Name DPP8 {ECO:0000303|PubMed:11012666, ECO:0000312|HGNC:HGNC:16490}

Function
Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2 (PubMed:11012666, PubMed:12534281, PubMed:12662155, PubMed:15039077, PubMed:15664838, PubMed:20536396, PubMed:29382749). Acts as a key inhibitor of caspase-1-dependent monocyte and macrophage pyroptosis in resting cells by preventing activation of NLRP1 and CARD8 (PubMed:27820798, PubMed:<a

href="http://www.uniprot.org/citations/29967349" target="_blank">29967349, PubMed:32796818). Sequesters the cleaved C-terminal part of NLRP1 and CARD8, which respectively constitute the active part of the NLRP1 and CARD8 inflammasomes, in a ternary complex, thereby preventing their oligomerization and activation (PubMed:34019797, PubMed:33731929, PubMed:33731932). The dipeptidyl peptidase activity is required to suppress NLRP1 and CARD8; however, neither NLRP1 nor CARD8 are bona fide substrates of DPP8, suggesting the existence of substrate(s) required for NLRP1 and CARD8 inhibition (By similarity).

Cellular Location
Cytoplasm

Tissue Location
Ubiquitously expressed, with highest levels in testis, placenta, prostate, muscle and brain

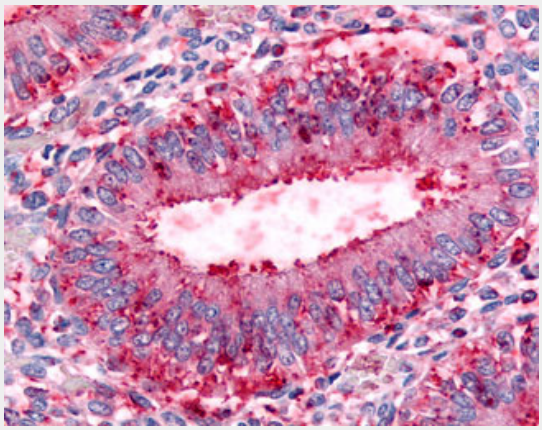
Volume
50 µl

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - Images



Anti-DPP8 antibody ALS10930 IHC of human uterus, endometrial glands.

Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - Background

Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2. May play a role in T-cell activation and immune function.

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Dipeptidylpeptidase 8 / DPP8 Antibody (Internal) - References

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Qi S.Y.,et al.Biochem. J. 373:179-189(2003).
Sha J.H.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zhao B.,et al.Submitted (AUG-1999) to the EMBL/GenBank/DDBJ databases.