

Dipeptidylpeptidase 8 / DPP8 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS13659

Specification

Dipeptidylpeptidase 8 / DPP8 Antibody - Product Information

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

Dipeptidylpeptidase 8 / DPP8 Antibody - 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 DPRP1.

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

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

Dipeptidylpeptidase 8 / DPP8 Antibody - 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:29967349, PubMed:29967349).

[32796818](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/34019797), PubMed: [33731929](http://www.uniprot.org/citations/33731929), PubMed: [33731932](http://www.uniprot.org/citations/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

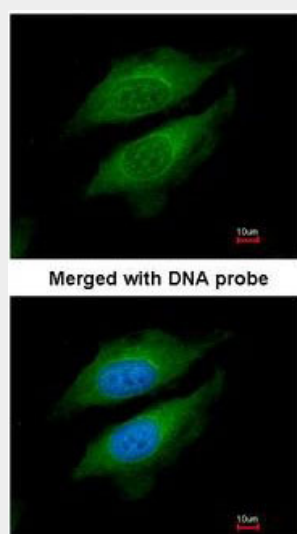
Volume

50 µl

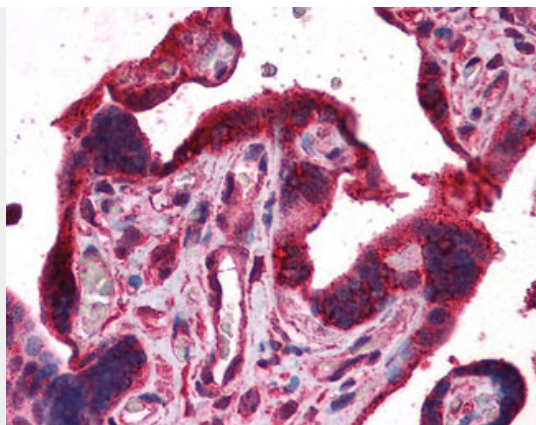
Dipeptidylpeptidase 8 / DPP8 Antibody - Protocols

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

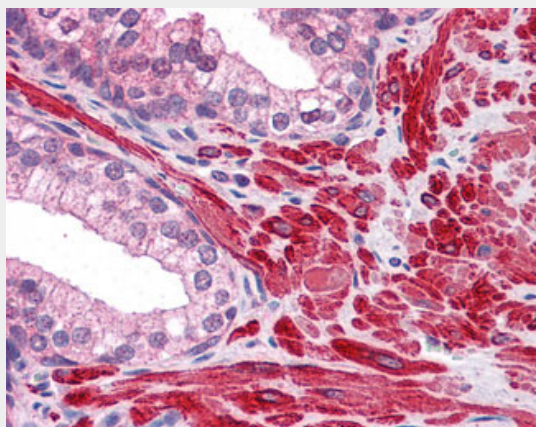
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Dipeptidylpeptidase 8 / DPP8 Antibody - Images

Immunofluorescence of paraformaldehyde-fixed HeLa, using DPP8 antibody at 1:200 dilution.



Anti-DPP8 antibody IHC of human placenta.



Anti-DPP8 antibody IHC of human prostate.

Dipeptidylpeptidase 8 / DPP8 Antibody - 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.

Dipeptidylpeptidase 8 / DPP8 Antibody - References

- Abbott C.A.,et al.Eur. J. Biochem. 267:6140-6150(2000).
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.