

DPP9 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10969**Specification****DPP9 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	Q86TI2
Reactivity	Human, Mouse, Hamster
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98kDa KDa

DPP9 Antibody (Internal) - Additional Information**Gene ID** 91039**Other Names**

Dipeptidyl peptidase 9, DP9, 3.4.14.5, Dipeptidyl peptidase IV-related protein 2, DPRP-2, Dipeptidyl peptidase IX, DPP IX, Dipeptidyl peptidase-like protein 9, DPLP9, DPP9, DPRP2

Target/Specificity

Human DPP9. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

DPP9 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

DPP9 Antibody (Internal) - Protein Information**Name** DPP9 {ECO:0000303|PubMed:12459266, ECO:0000312|HGNC:HGNC:18648}**Function**

Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2 (PubMed:12662155, PubMed:16475979, PubMed:19667070, PubMed:29382749, PubMed:30291141, PubMed:33731929, PubMed:36112693). 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:27820798, PubMed:27820798).

[29967349](http://www.uniprot.org/citations/29967349), PubMed: [30291141](http://www.uniprot.org/citations/30291141), PubMed: [31525884](http://www.uniprot.org/citations/31525884), PubMed: [32796818](http://www.uniprot.org/citations/32796818), PubMed: [36357533](http://www.uniprot.org/citations/36357533), PubMed: [36112693](http://www.uniprot.org/citations/36112693)). 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 DPP9, suggesting the existence of substrate(s) required for NLRP1 and CARD8 inhibition (PubMed: [33731929](http://www.uniprot.org/citations/33731929)).

Cellular Location

[Isoform 1]: Cytoplasm, cytosol

Tissue Location

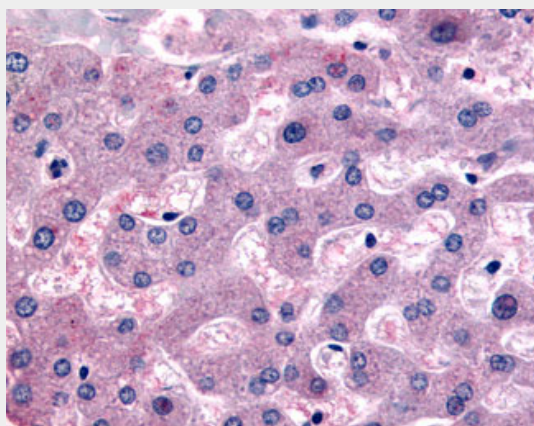
Ubiquitously expressed, with highest levels in liver, heart and muscle, and lowest levels in brain

DPP9 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 Cytometry](#)
- [Cell Culture](#)

DPP9 Antibody (Internal) - Images



Anti-DPP9 antibody ALS10969 IHC of human liver.

DPP9 Antibody (Internal) - Background

Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2.

DPP9 Antibody (Internal) - References

- Olsen C.,et al.Gene 299:185-193(2002).
Qi S.Y.,et al.Biochem. J. 373:179-189(2003).
Ajami K.,et al.Biochim. Biophys. Acta 1679:18-28(2004).
Bjelke J.R.,et al.Biochem. J. 396:391-399(2006).
Ota T.,et al.Nat. Genet. 36:40-45(2004).