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DPP9 Antibody (clone 6A12)

Mouse Monoclonal Antibody

Catalog # ALS16278

Specification

DPP9 Antibody (clone 6A12) - Product Information

Application	**WB, IHC**
Primary Accession	Q86TI2
Reactivity	**Human, Dog**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**98kDa KDa**

DPP9 Antibody (clone 6A12) - 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

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
DPP9 Antibody (clone 6A12) is for research use only and not for use in diagnostic or therapeutic procedures.

DPP9 Antibody (clone 6A12) - 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:29967349, PubMed:<a

href="http://www.uniprot.org/citations/30291141" target="_blank">30291141, PubMed:31525884, PubMed:32796818, PubMed:36357533, PubMed: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, 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 DPP9, suggesting the existence of substrate(s) required for NLRP1 and CARD8 inhibition (PubMed:33731929).

Cellular Location
[Isoform 1]: Cytoplasm, cytosol

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

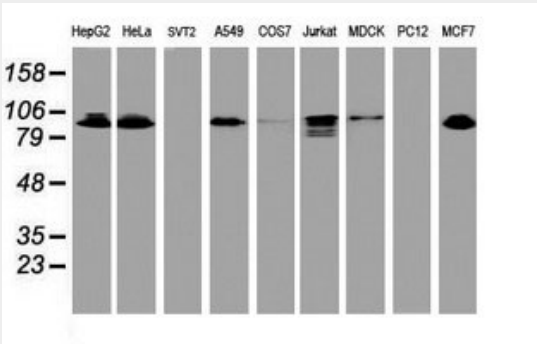
Volume
50 µl

DPP9 Antibody (clone 6A12) - Protocols

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

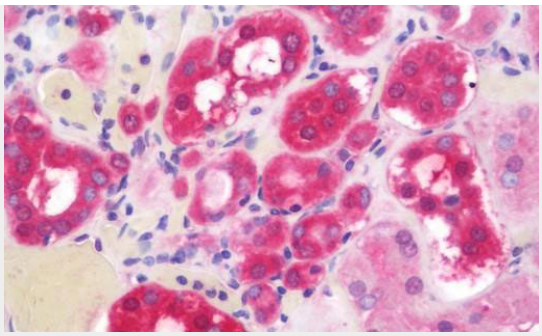
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DPP9 Antibody (clone 6A12) - Images



Western blot of extracts (35 ug) from 9 different cell lines by using anti-DPP9 monoclonal antibody.

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Anti-DPP9 antibody IHC staining of human kidney.

DPP9 Antibody (clone 6A12) - Background

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

DPP9 Antibody (clone 6A12) - 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).