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DPP9 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58955

Specification

DPP9 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, E**
Primary Accession	Q86TI2
Reactivity	**Rat, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**98 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human DPP9/DPRP2**
Epitope Specificity	**501-600/863**
Isotype	**IgG**
Purity	
affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cytoplasm, cytosol.**
SIMILARITY	**Belongs to the peptidase S9B family. DPPIV subfamily.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2.Dipeptidyl peptidases (DPPs) mediate regulatory activity of their substrates and have been linked to a variety of diseases including type 2 diabetes, obesity and cancer. DPPs have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. DPPs can bind specific voltage-gated potassium channels and alter their expression and biophysical properties and may also influence T cells. DPP proteins include DPRP1, DPRP2, DPP3, DPP7, DPP10, DPPX and CD26. DPRP2 (dipeptidyl-peptidase IV-related protein 2), also known as DPP9 (dipeptidyl-peptidase 9), or DP9, is a member of the peptidase S9B family of proteins that exhibit prolyl oligopeptidase activity. DPRP2 localizes to the cytoplasm and is ubiquitously expressed with predominant expression in heart, muscle and liver. DPRP2 may play an important role in the regulation of signaling by peptide hormones.

DPP9 Polyclonal Antibody - 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
Ubiquitously expressed, with highest levels in liver, heart and muscle, and lowest levels in brain.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

DPP9 Polyclonal Antibody - 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:30291141, PubMed:31525884, PubMed:32796818, PubMed:36112693, PubMed:36357533). 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:33731929, PubMed:33731932, PubMed:34019797). 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

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DPP9 Polyclonal 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 Cytomety
- Cell Culture

DPP9 Polyclonal Antibody - Images