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

DPP8 Rabbit pAb

Catalog # AP98920

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q6V1X1
Other Accession	Q6V1X1
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103358
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DPP8/DPRP1
Epitope Specificity	301-400/898
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase M16 family. UQCRC1/QCR1 subfamily.
SUBUNIT	The bc1 complex contains 11 subunits: 3 respiratory subunits (cytochrome b, cytochrome c1 and Rieske/UQCRFS1), 2 core proteins (UQCRC1/QCR1 and UQCRC2/QCR2) and 6 low-molecular weight proteins (UQCRH/QCR6, UQCRB/QCR7, UQCRQ/QCR8, UQCR10/QCR9, UQCR11/QCR10 and a cleavage product of Rieske/UQCRFS1).
Post-translational modifications	Acetylation of Lys-138 is observed in liver mitochondria from fasted mice but not from fed mice.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This is a component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex), which is part of the mitochondrial respiratory chain. This protein may mediate formation of the complex between cytochromes c and c1.

Additional Information

Gene ID	54878
Other Names	DP8; DPRP-1; DPRP1; MST097; MSTP097; MSTP135; MSTP141; 2310004I03Rik; 4932434F09Rik; DPP VIII; DPP8_HUMAN; DPP8; Dipeptidyl peptidase IV-related protein 1 (DPRP-1); Dipeptidyl peptidase VIII (DPP VIII); Prolyl dipeptidase DPP8; 3.4.14.5; DPP8_MOUSE; dipeptidyl peptidase 8; dipeptidylpeptidase 8; dipeptidyl-peptidase 8; dipeptidyl peptidase VIII; dipeptidyl peptidase IV-related protein-1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

Storage	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 °C.

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: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: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 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.