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DPP10 Rabbit pAb

Catalog # AP99218

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N608
Other Accession	Q8N608
Predicted	Rat, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90888
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DPP10
Epitope Specificity	631-730/796
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 S9B family. DPPIV subfamily.
SUBUNIT	May form oligomers. Interacts with KCND1 (Probable). Interacts with KCND2.
Post-translational modifications	N-glycosylated.
DISEASE	Genetic variations in DPP10 are associated with susceptibility to asthma (ASTHMA) [MIM:600807]. The most common chronic disease affecting children and young adults. It is a complex genetic disorder with a heterogeneous phenotype, largely attributed to the interactions among many genes and between these genes and the environment. It is characterized by recurrent attacks of paroxysmal dyspnea, with weezing due to spasmodic contraction of the bronchi.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. DPP10 (dipeptidyl-peptidase 10), also known as DPRP3 (dipeptidyl peptidase IV-related protein 3), DPL2 or DPPY, is a non-functional dipeptidyl peptidase which can bind to the potassium channels KV4.1 and KV4.2. It is a single-pass type II membrane protein expressed in spinal cord, adrenal glands, pancreas and brain tissues and may act as a modulator for cell surface expression and activity of KV4.1 and KV4.2.

Additional Information

Gene ID	57628
Other Names	DPL2; DPPY; DPRP-3; DPRP3; 6430601K09Rik; DPP X; DPP10_HUMAN; DPP10; Dipeptidyl peptidase IV-related protein 3 (DPRP-3); Dipeptidyl peptidase X (DPP X); Dipeptidyl peptidase-like protein 2 (DPL2); KIAA1492; DPP10_MOUSE; DPP10_RAT; Kv4 potassium channel auxiliary subunit; dipeptidyl peptidase like 10; dipeptidylpeptidase 10; dipeptidyl-peptidase 10; dipeptidyl-peptidase 10 (inactive)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C 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 °C.

Protein Information

Name	DPP10
Synonyms	DPRP3, KIAA1492
Function	Promotes cell surface expression of the potassium channel KCND2 (PubMed:15454437). Modulates the activity and gating characteristics of the potassium channel KCND2 (PubMed:15454437). Has no dipeptidyl aminopeptidase activity (PubMed:12662155).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q6NXK7, ECO:0000269|PubMed:14566338}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:P42658}
Tissue Location	Found in serum, T-cells and brain (at protein level). Expressed in brain, pancreas, spinal cord and adrenal glands

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