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DPP10 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9000c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8N608
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23704
Calculated MW	90888
Antigen Region	150-177

Additional Information

Gene ID	57628
Other Names	Inactive dipeptidyl peptidase 10, Dipeptidyl peptidase IV-related protein 3, DPRP-3, Dipeptidyl peptidase X, DPP X, Dipeptidyl peptidase-like protein 2, DPL2, DPP10, DPRP3, KIAA1492
Target/Specificity	This DPP10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 150-177 amino acids from the Central region of human DPP10.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DPP10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

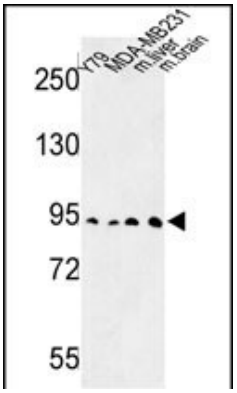
Background

DPP10 is a single-pass type II membrane protein that is a member of the S9B family in clan SC of the serine proteases. This protein has no detectable protease activity, most likely due to the absence of the conserved serine residue normally present in the catalytic domain of serine proteases. However, it does bind specific voltage-gated potassium channels and alters their expression and biophysical properties.

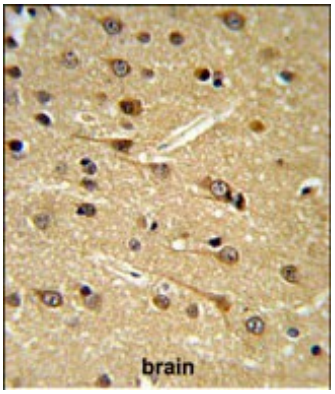
References

Blakey J.D., et.al., Thorax 64:381-387(2009).

Images



Western blot analysis of DPP10 Antibody (Center) (Cat. #AP9000c) in Y79, MDA-MB231 cell line and mouse liver, brain tissue lysates (35ug/lane). DPP10 (arrow) was detected using the purified Pab.



DPP10 Antibody (Center) (Cat. #AP9000c) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DPP10 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.