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Rabbit Anti-DPP6 antibody

SL9010R

Product Name:	DPP6
Chinese Name:	二肽基肽酶6抗体
Alias:	Dipeptidyl aminopeptidase like protein 6; Dipeptidyl aminopeptidase related protein; Dipeptidyl peptidase 6; Dipeptidyl peptidase IV like protein; Dipeptidylpeptidase 6; Dipeptidylpeptidase VI; DPPX; DPP6_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	98kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DPP6:401-500/865<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	DPP6 is a Type-II serine proteinase of the clan SC. The clan SC proteinases have a catalytic triad of Ser-Asp-His, and like other Serine proteinases, the active site serine is in a Gly-Xaa-Ser-Xaa -Gly orientation. DPP6 has an Asp instead of Ser in the catalytic site. DPP6 is a member of a broader family of dipeptidyl peptidases including DPP4,

FAP/Seprase, DPP2, DPP8, DPP9, DPP10, which have differing substrate specificity and tissue localizations. The surface-bound DPP6 is a homodimer, and cleavage of in the stalk region releases a shed form of DPP6. The shed is the form found in serum. DPP6 has been found in highest abundance in the brain, but also in the kidney, liver and lung.

Function:
May be involved in the physiological processes of brain function. Has no dipeptidyl aminopeptidase activity. May modulate the cell surface expression and the activity of the potassium channel KCND2.

Subunit:
Homodimer. Binds KCND2.

Subcellular Location:
Membrane; Single-pass type II membrane protein (Probable).

Tissue Specificity:
Expressed predominantly in brain.

DISEASE:
Defects in DPP6 are the cause of familial paroxysmal ventricular fibrillation type 2 (VF2) [MIM:612956]. A cardiac arrhythmia marked by fibrillary contractions of the ventricular muscle due to rapid repetitive excitation of myocardial fibers without coordinated contraction of the ventricle and by absence of atrial activity. Note=A genetic variation 340 bases upstream from the ATG start site of the DPP6 gene is the cause of familial paroxysmal ventricular fibrillation type 2.

Similarity:
Belongs to the peptidase S9B family.

SWISS:
P42658

Gene ID:
1804

Database links:

Entrez Gene: 1804 Human

Entrez Gene: 13483 Mouse

Entrez Gene: 29272 Rat

Omim: 126141 Human

	SwissProt: P42658 Human SwissProt: Q9Z218 Mouse SwissProt: P46101 Rat Unigene: 490684 Human Unigene: 42078 Mouse Unigene: 10076 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.