

PCDH8 Rabbit pAb

PCDH8 Rabbit pAb
Catalog # AP54382

Product Information

Application	WB
Primary Accession	O95206
Reactivity	Human
Predicted	Rat, Pig, Chimpanzee, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113019
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PCDH8
Epitope Specificity	51-150/1070
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	Cell Membrane. Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Protocadherins are a large family of cadherin-like cell adhesion proteins that are involved in the establishment and maintenance of neuronal connections in the brain. There are three protocadherin gene clusters, designated alpha, beta and gamma, all of which contain multiple tandemly arranged genes. PCDH8 (protocadherin-8), also known as Arcadlin or PAPC, is a 1,070 amino acid single-pass type I membrane protein that contains six cadherin domains and belongs to the protocadherin family. Localized to the cell membrane and expressed specifically in fetal and adult brain, PCDH8 is thought to play a role in cell adhesion events in the central nervous system (CNS). PCDH8 is inactivated or silenced in breast cancer, suggesting a possible role in tumor suppression. Two isoforms of PCDH8 that differ in their cytoplasmic tails are expressed due to alternative splicing events.

Additional Information

Gene ID	5100
Other Names	Protocadherin-8, Arcadlin, PCDH8
Dilution	WB=1:500-2000
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.

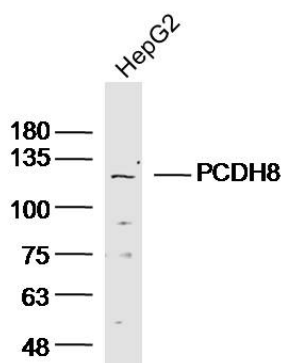
Protein Information

Name	PCDH8
Function	Calcium-dependent cell-adhesion protein (By similarity). May play a role in activity-induced synaptic reorganization underlying long term memory (By similarity). Could be involved in CDH2 internalization through TAOK2/p38 MAPK pathway. In hippocampal neurons, may play a role in the down-regulation of dendritic spines, maybe through its action on CDH2 endocytosis (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, dendrite. Presynaptic cell membrane. Postsynaptic cell membrane Note=Also expressed in neuronal cell bodies. Localized to excitatory, but not with inhibitory, synapses.

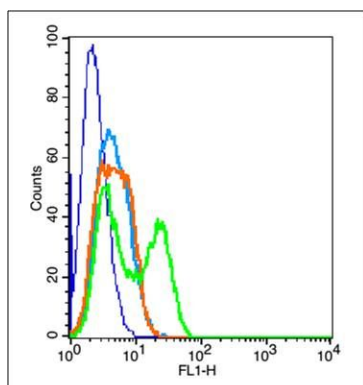
Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Sample: HepG2 (Human) cell lysate at 40 µg
Primary: Anti-PCDH8 (AP54382) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 110 kD
Observed band size: 110 kD



Blank control (blue line): U2OS (fixed with 2% paraformaldehyde (10 min)).
Primary Antibody (green line): Rabbit Anti-PCDH8 antibody (AP54382), Dilution: 1 µg / 10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody (white/blue line): Goat anti-rabbit IgG-FITC, Dilution: 1 µg / test.

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