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CDH4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1401A

Product Information

Application	IHC-P, IF, FC, WB, E
Primary Accession	P55283
Other Accession	Q63149, P39038
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13654
Calculated MW	100281
Antigen Region	175-203

Additional Information

Gene ID	1002
Other Names	Cadherin-4, Retinal cadherin, R-CAD, R-cadherin, CDH4
Target/Specificity	This CDH4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-203 amino acids from the N-terminal region of human CDH4.
Dilution	IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 WB~~1:1000 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	CDH4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDH4
Function	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting

	cells; cadherins may thus contribute to the sorting of heterogeneous cell types. May play an important role in retinal development.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed mainly in brain but also found in other tissues

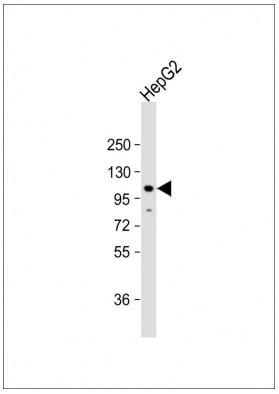
Background

CDH4 is a classical cadherin from the cadherin superfamily. It is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization.

References

Miotto,E., Cancer Res. 64 (22), 8156-8159 (2004)
Johnson,E., J. Biol. Chem. 279 (30), 31041-31049 (2004)
Kitagawa,M., Biochem. Biophys. Res. Commun. 271 (2), 358-363 (2000)

Images



Anti-CDH4 Antibody (N-term) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Expression and Prognostic Significance of Cadherin 4 (CDH4) in Renal Cell Carcinoma
- Novel target genes responsive to the anti-growth activity of triptolide in endometrial and ovarian cancer cells.