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M Cadherin (CDH15) Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1435b

Product Information

Application	WB, IHC-P, E
Primary Accession	P55291
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13749
Calculated MW	88916
Antigen Region	739-767

Additional Information

Gene ID	1013
Other Names	Cadherin-15, Cadherin-14, Muscle cadherin, M-cadherin, CDH15, CDH14, CDH3
Target/Specificity	This M Cadherin (CDH15) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 739-767 amino acids from the C-terminal region of human M Cadherin (CDH15).
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	M Cadherin (CDH15) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDH15
Synonyms	CDH14, CDH3
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. M-cadherin is part of the myogenic program and may provide a trigger for terminal muscle differentiation.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in the brain and cerebellum.

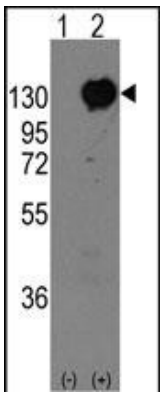
Background

CDH15 is a member of the cadherin superfamily of genes, encoding calcium-dependent intercellular adhesion glycoproteins. Cadherins consist of an extracellular domain containing 5 cadherin domains, a transmembrane region, and a conserved cytoplasmic domain. Transcripts from this particular cadherin are expressed in myoblasts and upregulated in myotubule-forming cells. This protein is thought to be essential for the control of morphogenetic processes, specifically myogenesis, and may provide a trigger for terminal muscle cell differentiation.

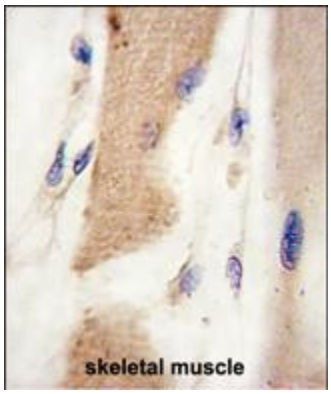
References

Kang,J.S., Proc. Natl. Acad. Sci. U.S.A. 100 (7), 3989-3994 (2003) Hollnagel,A., Mol. Cell. Biol. 22 (13), 4760-4770 (2002) Meigs,T.E., Proc. Natl. Acad. Sci. U.S.A. 98 (2), 519-524 (2001)

Images



Western blot analysis of CDH15 (arrow) using rabbit polyclonal CDH15 Antibody (C-term) (Cat.#AP1435b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CDH15 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with CDH15 antibody (C-term) (Cat.#AP1435b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.