Datasheet for ABIN968363

anti-CDH15 antibody (AA 253-366)

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Overview

Quantity:	50 µg
Target:	CDH15
Binding Specificity:	AA 253-366
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDH15 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse M-Cadherin aa. 253-366
Clone:	5-M
Isotype:	IgG2a
Cross-Reactivity:	Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	CDH15
Alternative Name:	M-Cadherin (CDH15 Products)
Background:	Cadherins are a family of transmembrane glycoproteins involved in the Ca2+-dependent cell-cell adhesion that occurs in many tissues. Members of this family include P-Cadherin, E-Cadherin (uvomorulin), N-Cadherin, R-Cadherin, Cadherin-5, L-CAM, and EP-Cadherin. These proteins are similar in their domain structure (45-74% amino acid conservation), Ca2+ and protease sensitivity, and molecular weight. However, cadherins have distinct tissue expression patterns and immunological reactivities. M (muscle)-Cadherin, another member of the Cadherin family, was discovered in myogenic mouse cells where it is present at low levels in myoblasts. It is expressed in prenatal and adult skeletal muscle and plays a role in skeletal muscle cell differentiation, particularly the fusion of myoblasts into myotubes. It is upregulated upon induction of myotube formation. M-Cadherin also forms complexes with the catenins in skeletal muscle cells, which then interact with the cytoskeleton. Therefore, it is thought that the M-Cadherin-cytoskeleton interaction may play a role in aligning myoblasts during fusion. This antibody is routinely tested by western blot analysis.
Molecular Weight:	130 kDa

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Kang, Feinleib, Knox, Ketteringham, Krauss: "Promyogenic members of the Ig and cadherin families associate to positively regulate differentiation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 7, pp. 3989-94, (2003) (PubMed).

Kaufmann, Kirsch, Irintchev, Wernig, Starzinski-Powitz: "The M-cadherin catenin complex interacts with microtubules in skeletal muscle cells: implications for the fusion of myoblasts." in: **Journal of cell science**, Vol. 112 (Pt 1), pp. 55-68, (1999) (PubMed).

Shimoyama, Shibata, Kitajima, Hirohashi: "Molecular cloning and characterization of a novel human classic cadherin homologous with mouse muscle cadherin." in: **The Journal of biological chemistry**, Vol. 273, Issue 16, pp. 10011-8, (1998) (PubMed).

Kuch, Winnekendonk, Butz, Unvericht, Kemler, Starzinski-Powitz: "M-cadherin-mediated cell adhesion and complex formation with the catenins in myogenic mouse cells." in: **Experimental cell research**, Vol. 232, Issue 2, pp. 331-8, (1997) (PubMed).

Donalies, Cramer, Ringwald, Starzinski-Powitz: "Expression of M-cadherin, a member of the cadherin multigene family, correlates with differentiation of skeletal muscle cells." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 88, Issue 18, pp. 8024-8, (1991) (PubMed).

Western Blotting

Image 1. Western blot analysis of M-Cadherin on mouse neonate lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-M-Cadherin.