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Rabbit Anti-M Cadherin antibody

SL6678R

Product Name:	M Cadherin
Chinese Name:	M钙粘附分子抗体
Alias:	M-Cadherin; Cadherin 14; Cadherin 15; Cadherin 3; Cadherin14; Cadherin15; Cadherin3; CCAD; CDH 14; CDH 15; CDH 3; CDH14; CDH15; CDH3; CDHM; MCAD; Muscle cadherin; Myotubule cadherin; CAD15_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	89kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human M-Cadherin:355-450/814
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:	Cadherins are a family of transmembrane glycoproteins that play a key role in Calcium dependent cell-cell adhesion. Several members of the cadherin family have been identified so far, including E- (epithelial), P- (placental), N- (neuronal) and M- (muscle) cadherin. 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. M-Cadherin is thought to be essential for the control of morphogenetic processes, specifically myogenesis, and may provide a trigger for terminal muscle cell differentiation.

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.

Subcellular Location:
Type 1 membrane protein.

Tissue Specificity:
Expressed in the brain and cerebellum.

DISEASE:
Note=A chromosomal aberration involving CDH15 and KIRREL3 is found in a patient with severe mental retardation and dysmorphic facial features. Translocation t(11;16)(q24.2;q24).
Defects in CDH15 are the cause of mental retardation autosomal dominant type 3 (MRD3) [MIM:612580]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period.

Similarity:
Contains 5 cadherin domains.

SWISS:
P55291

Gene ID:
1013

Database links:

Entrez Gene: 1013Human

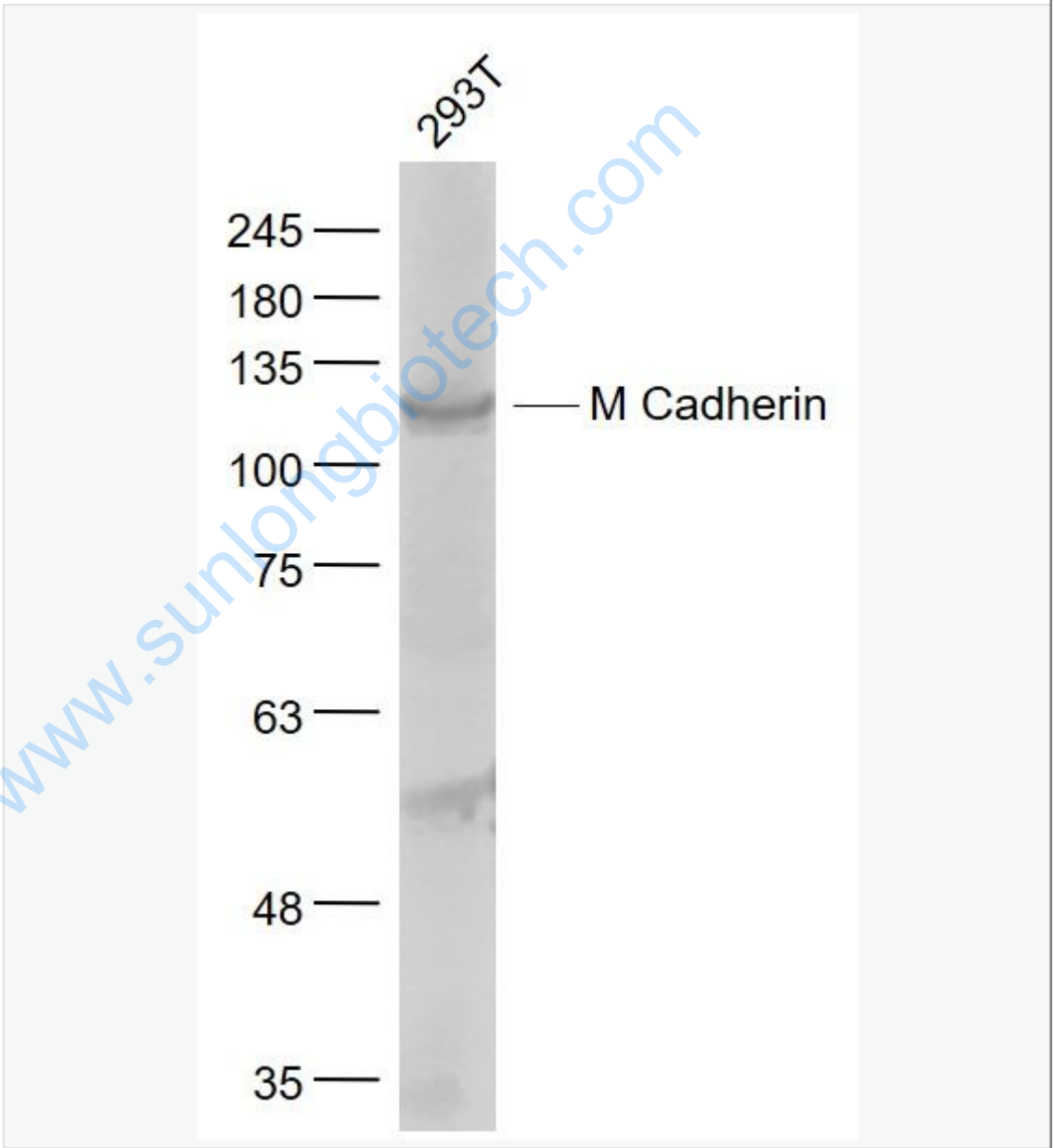
Entrez Gene: 12555Mouse

Entrez Gene: 361432Rat

Omim: 114019Human

SwissProt: P55291Human

SwissProt: P33146Mouse

	Unigene: 148090Human Unigene: 1976Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample:

	293T(Human) Cell Lysate at 30 ug Primary: Anti- M Cadherin (SL6678R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 89 kD Observed band size: 110 kD