

**Product Name: M-cadherin Rabbit Polyclonal Antibody**  
**Catalog #: AP Rab13702**



## Summary

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Production Name</b> | M-cadherin Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody            |
| <b>Host</b>            | Rabbit                                |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA       |
| <b>Reactivity</b>      | Human,Mouse,Rat                       |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | IgG  |
| <b>Clonality</b>    | Polyclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.       |
| <b>Purification</b> | Affinity purification  |

## Immunogen

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | CDH15   |
| <b>Alternative Names</b> | CDH15; CDH14; CDH3; Cadherin-15; Cadherin-14; Muscle cadherin; M-cadherin                               |
| <b>Gene ID</b>           | 1013.0  |
| <b>SwissProt ID</b>      | P55291.The antiserum was produced against synthesized peptide derived from human CDH15. AA range:81-130 |

## Application

|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000, IF-P/IF-F/ICC/IF 1:50-200 |
| <b>Molecular Weight</b> | 89kDa  |

## Background

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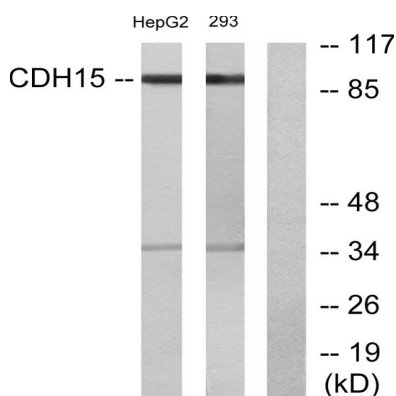


This gene is a member of the cadherin superfamily of genes, encoding calcium-dependent intercellular adhesion glycoproteins. Cadherins consist of an extracellular domain containing 5 cadherin domains, a transmembrane region, and a conserved cytoplasmic domain. Transcripts from this particular cadherin are expressed in myoblasts and upregulated in myotubule-forming cells. The protein is thought to be essential for the control of morphogenetic processes, specifically myogenesis, and may provide a trigger for terminal muscle cell differentiation. [provided by RefSeq, Jul 2008],disease: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),disease: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 adaptive behavior and manifested during the developmental period.,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.,similarity:Contains 5 cadherin domains.,tissue specificity:Expressed in the brain and cerebellum,.

## Research Area

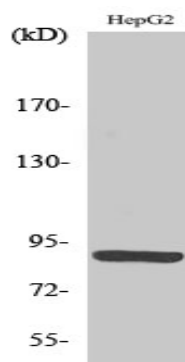
Cell adhesion molecules (CAMs);

## Image Data



Western blot analysis of lysates from HepG2 and 293 cells, using CDH15 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of various cells using M-cadherin Polyclonal Antibody diluted at 1: 500

### **Note**

For research use only.