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|--------------------------|--------------------------------------------------------------------------------------------------|
| <b>Product name:</b>     | M-cadherin Rabbit Polyclonal Antibody                                                            |
| <b>Cat number:</b>       | ABN13702                                                                                         |
| <b>Conjugate:</b>        | Unconjugated                                                                                     |
| <b>Size:</b>             | 100µL                                                                                            |
| <b>Clone:</b>            | Polyclonal                                                                                       |
| <b>Concentration:</b>    | 1mg/ml                                                                                           |
| <b>Host:</b>             | Rabbit                                                                                           |
| <b>Isotype:</b>          | IgG                                                                                              |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human CDH15. AA range:81-130 |
| <b>Reactivity:</b>       | Human,Mouse,Rat                                                                                  |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000                           |
| <b>Molecular Weight:</b> | 89kDa                                                                                            |
| <b>Purification:</b>     | Affinity purification                                                                            |
| <b>Form:</b>             | Liquid                                                                                           |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.               |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.     |

**Background:**

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.,