

DESCRIPTION

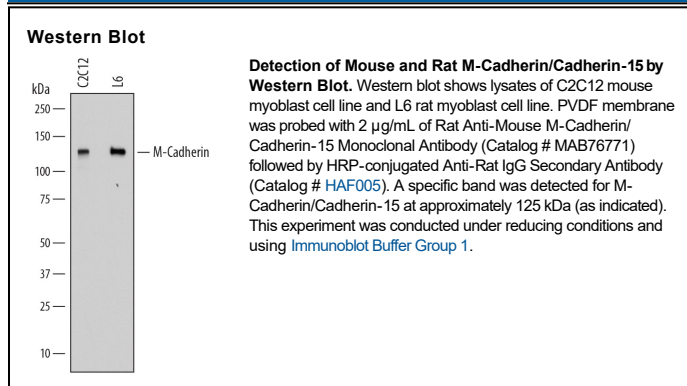
Species Reactivity	Mouse/Rat
Specificity	Detects mouse M-Cadherin/Cadherin-15 in direct ELISAs and mouse and rat M-Cadherin/Cadherin-15 in Western blots. In direct ELISAs, no cross-reactivity with recombinant human M-Cadherin, recombinant mouse (rm) Cadherin-13, or rmP-Cadherin is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 800512
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse M-Cadherin/Cadherin-15 Val22-Ala605 Accession # P33146
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CDH-15 (Cadherin 15; also M-cadherin, Muscle cadherin and Cadherin-14) is a 125-127 kDa atypical member of the classical cadherin family, cadherin superfamily of molecules. It is expressed by muscle satellite cells, cells of the embryonic myotome, and hematopoietic bone marrow stem cells. CDH-15 appears to bind homotypically in trans, thus allowing for the identification and subsequent fusion of myoblast precursors, particularly those in slow-twitch (or red fiber) muscles. This is accompanied by a downregulation of mitochondrial induced apoptosis. Mouse CDH-15 is synthesized as a 784 amino acid (aa) preproprecursor. It contains a 21 aa signal sequence, a 38 aa propeptide, and a 725 aa mature region. The mature region is expressed as a type I transmembrane glycoprotein that possesses a 546 aa extracellular region (aa 60-605) and a 159 aa cytoplasmic domain (aa 626-784). The extracellular region shows five consecutive cadherin domains. Over aa 22-605, mouse CDH-15 shares 88% and 97% aa sequence identity with human and rat CDH-15, respectively.