

# M-cadherin (545-615): sc-4373 WB

## BACKGROUND

Cadherins are a multigene family of Ca<sup>++</sup>-dependent cell adhesion molecules. They are transmembrane glycoproteins consisting of an extra-cellular domain, which mediates Ca<sup>++</sup>-dependent intercellular adhesion by homophilic interactions, a transmembrane region and a cytoplasmic domain. The extracellular domain is divided into a series of subdomains designated EC1-EC5. Homologies between different members of the cadherin family are most prominent in the cytoplasmic domain and in EC1 and EC2 and much less so in EC5 of the extracellular domain and in the transmembrane region. The binding properties and specificities of the adhesive function are located in the N-terminal part of the molecules. Four members of the cadherin family have been identified and molecularly cloned from mammalian cells. These include the neuronal (N), epithelial (E), placental (P) and muscle (M) cadherins. M-cadherin is not found in fibroblasts but is expressed at low level in myoblasts and is upregulated following induction of myotube formation, suggesting a specific function in skeletal muscle cell differentiation.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CDH15 (human) mapping to 16q22.1; Cdh15 (mouse) mapping to 8 E1.

## SOURCE

M-cadherin (545-615) is expressed in *E. coli* as a 35 kDa tagged fusion protein corresponding to amino acids 545-615 of M-cadherin of human origin.

## PRODUCT

M-cadherin (545-615) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 µg protein in 0.1 ml SDS-PAGE loading buffer.

## APPLICATIONS

M-cadherin (545-615) is suitable as a Western blotting control for sc-10734.

## STORAGE

Store at -20° C; stable for one year from the date of shipment.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.