



Qty: 100µg/400 µL

Rabbit anti-M-Cadherin

For Research Use Only

Catalog No. 36-2100

Lot No.

Rabbit anti-M-Cadherin

FORM

This polyclonal antibody is supplied as a 400 µl aliquot at a concentration of 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.280

IMMUNOGEN

Synthetic peptide derived from the C terminal region of the mouse M-Cadherin (Cadherin 14, Cadherin 15) protein.

SPECIFICITY

This antibody is specific for the mouse M-Cadherin protein. On Western blots, it identifies a single band at ~130 kDa.

REACTIVITY

Reactivity has been confirmed with fetal mouse muscle homogenates.

Sample	Western Blotting	ELISA
Mouse	+++	ND
Immunogen	N/A	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1µg/mL
Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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(Rev 10/08) DCC-08-1089

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BACKGROUND

M-cadherin belongs to the cadherin family of proteins, which are calcium-dependent, protease-sensitive molecules that mediate homotypic cell-cell adhesion. M-cadherin is highly expressed in developing and regenerating skeletal muscles.¹ In postnatal mature myofibers and after completion of myotube formation *in vitro*, M-cadherin expression is downregulated, but the protein remains present in quiescent satellite cells.² M-cadherin is also present in the contactus adherens in the granular cell layer of the cerebellar glomerulus.³ Studies of skeletal muscle and cerebellum in M-cadherin-null mutant mice have demonstrated that other cadherins such as N-cadherin and R-cadherin may compensate for absent M-cadherin function.⁴ Although the calculated molecular weight of M-cadherin is ~86 kDa, the apparent molecular weight is ~130 kDa due to glycosylation.

REFERENCES

1. Donalies M, et al. *Proc Natl Acad Sci USA* 88(18): 8024-8028, 1991.
2. Beauchamp JR, et al. *J Cell Biol* 151(6): 1221-1234, 2000.
3. Bahjaoui-Bouhaddi M, et al. *J Comp Neurol* 378(2): 180-195, 1997.
4. Hollnagel A, et al. *Mol Cell Biol* 22(13): 4760-4770, 2002.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rb anti-VE-Cadherin	ZMD.277	36-1900
Ms anti-E-Cadherin	4A2C7	33-4000
Ms anti-E-Cadherin	HECD-1	13-1700
Rt anti-E-Cadherin	ECCD-2	13-1900
Ms anti-E-Cadherin	SHE78-7	13-5700
Rt anti-E-Cadherin	ECCD-1	13-1800
Ms anti-Ksp-Cadherin	4H6/F9	35-4700
Ms anti-N-Cadherin	3B9	33-3900
Rt anti-N-Cadherin	NCD-2	13-2100
Ms anti-P-Cadherin	12H6	32-4000
Ms anti-P-Cadherin	NCC-CAD-299	13-5800
Rt anti-P-Cadherin	PCD-1	13-2000
Ms anti-Cadherin 11	5B2H5	32-1700
Rb anti-Cadherin 11	WTID1	71-7600
Rb anti-pan-Cadherin	ZyPC7	71-7100
Ms anti-p120 ^{ctn}	6H11	33-9700
Ms anti-p120 ^{ctn}	15D2	33-9600
Ms anti- α -Catenin	α CAT-7A4	13-9700
Rb anti- α -Catenin	ZER2	71-1200
Ms anti- β -Catenin	CAT-5H10	13-8400
Rb anti- β -Catenin	CAT-15	71-2700
Ms anti- γ -Catenin	PG-11E4	13-8500

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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