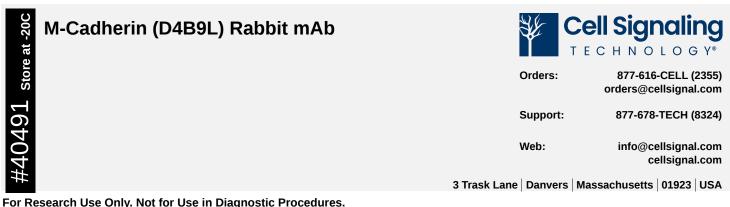
1/1/24, 6:05 AM Revision 1



Applications: WB, IP, IF-F, IF-IC	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 130	Source/Isotype: Rabbit IgG	UniProt ID: #P33146	Entrez-Gene Id: 12555
Product Usage Information	A	oplication				Dilution
information	W	estern Blotting				1:1000
	Im	munoprecipitation				1:200
	Im	munofluorescence (	Frozen)			1:200
	Im	munofluorescence (	Immunocytochen	nistry)		1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitiv	bar ~78 the	M-Cadherin (D4B9L) Rabbit mAb recognizes endogenous levels of total M-Cadherin protein. The lower band in the doublet shown in C2C12 and RD extracts is unglycosylated M-Cadherin. The identity of the ~78 kDa band that is present in the C2C12 extract is not known but is likely to be a breakdown product in the lysate as it is absent in the IP input and pull-down. Note that human M-Cadherin runs slightly lower than mouse M-Cadherin.				
Species predicted to react based on 1009 sequence homology	6	t				
Source / Purification				nunizing animals with a nan M-Cadherin protein.		responding to
Background	app adf N-, cell cac cat Wh acti of r in a cac cor tha cth cor tha oth M-co cell ma	proximately 100 resid nesion and play critic P-, R-, B-, and E-ca ular structure near the lherins interacts with enin associate with of ile $\beta$ - and $\gamma$ -catenin ivity and trafficking (2) nany epithelial cance addition to loss of E-ca lherin cooperates with search studies have relate with vascular t expression of P-ca er human cancers (7) cadherin is a cell-cell s/myogenic progenit	dues in their extra cal roles in norma dherins, as well a ne apical surface $\beta$ -catenin, y-cate $\alpha$ -catenin, which I play structural rol 1-4). Investigators ers (1-3). Resear cadherin. This ch th the FGF recep shown that in en permeability and dherin, which is ro 7,8). I adhesion molec cors found in mature recognition and fin	mbrane glycoproteins tha acellular domain. Cadhe I tissue development (1) as about ten other memi of polarized epithelial c enin (also called plakogl inks the cadherin-cateni es in the junctional com s consider E-cadherin a ch studies indicate that ange in cadherin express tor, leading to overexpre dothelial cells, VE-cadhe tumor angiogenesis (5,6 iormally present in epith ule expressed in satellitu ure muscle tissue (9). Re usion of adjacent cells, a	rins mediate calcium- ins mediate calcium- pers that are found in ells. The cytoplasmic obin), and p120 catel in complex to the acti- plex, p120 regulates in active suppressor of cancer cells have up ession is called the "ca ession of MMP-9 and erin signaling, express 6). Investigators have elial cells, is also alter e cells, a collection of esearch studies indic	dependent cell-cell n subfamily includes adherens junctions, a domain of classical nin. β-catenin and γ- n cytoskeleton (1,2). cadherin adhesive of invasion and growth regulated N-cadherin dherin switch." N- cellular invasion (3). sion, and localization also demonstrated red in ovarian and
Background Refere	2. C 3. F 4. E 5. F 6. Y	Christofori, G. (2003) Hazan, R.B. et al. (20 Bryant, D.M. and Sto Rabascio, C. et al. (2	EMBO J 22, 231 004) Ann N Y Aca w, J.L. (2004) Tre 004) Cancer Res al. (2006) Arterio	ad Sci 1014, 155-63. ends Cell Biol 14, 427-34 5 64, 4373-7. scler Thromb Vasc Biol	4.	

1/1/24, 6:05 AM	<ul> <li>M-Cadherin (D4B9L) Rabbit mAb (#40491) Datasheet Without Images Cell Signaling Technology</li> <li>8. Sanders, D.S. et al. (2000) J Pathol 190, 526-30.</li> <li>9. Irintchev, A. et al. (1994) Dev Dyn 199, 326-37.</li> <li>10. Marti, M. et al. (2013) J Cell Sci 126, 5116-31.</li> </ul>
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.