Merlin (D1D8) Rabbit mAb Orders:





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P35240	Entrez-Gene Id: 4771		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Ser	nsitivity	Merlin (D1D8) Rabbit mAb recognizes endogenous levels of total Merlin protein.						
Source / Purifi	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Merlin protein.						
Background		Neurofibromatosis 2 (NF2) is an autosomal dominant, inherited disorder characterized by the occurrence of vestibular schwannomas, meningiomas, and other nervous system tumors. Both the familial tumors of NF2 and equivalent sporadic tumors found in the general population are caused by inactivation of the <i>NF2</i> tumor suppressor gene. Merlin (moesin, ezrin, and radixin-like protein) is the <i>NF2</i> gene product, displaying striking similarity to ezrin, radixin, and moesin (ERM) proteins. Regulation of merlin (also called schwannomin) and ERM proteins involves intramolecular and intermolecular head-to-tail associations between family members (1). Merlin and ERM proteins act as linkers between the plasma membrane and the cytoskeleton, affecting cell morphology, polarity, and signal transduction (2). Merlin is phosphorylated by the Rac/Cdc42 effector p21-activated kinase (PAK) at Ser518, negatively regulating Rac (3,4).						
Background R	eferences	1. Ramesh, V. (2004) <i>Nat. Rev. Neurosci.</i> 5, 462-70. 2. Bretscher, A. et al. (2002) <i>Nat. Rev. Mol. Cell Biol.</i> 3, 586-99. 3. Xiao, G. H. et al. (2002) <i>J. Biol. Chem.</i> 277, 883-6. 4. Kissil, J. L. et al. (2003) <i>Mol. Cell</i> 12, 841-9.						
Species Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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 W: Western Blotting IP: Immunoprecipitation								
Cross-Reactivi	Cross-Reactivity Key H: Human M: Mouse R: Rat							
Trademarks and Patents		Cell Signaling Technolo	ogy is a trademark	of Cell Signaling Techno	logy, Inc.			
		All other trademarks a more information.	re the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for		
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.						
		approved, cleared, or la purpose. Customer sha any manner that confli	icensed by the FDA all not use any Proo cts with its labeling	se Only or a similar labe or other regulatory for duct for any diagnostic o g statement. Products so research and developme	eign or domestic er or therapeutic purp old or licensed by C	itity, for any ose, or otherwise in ST are provided 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.