3281

## Phospho-Merlin (Ser518) (D5A4I) Rabbit



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	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P35240	Entrez-Gene Id: 4771		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			<b>Dilution</b> 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	Phospho-Merlin (Ser518) (D5A4I) Rabbit mAb recognizes endogenous levels of merlin protein only when phosphorylated at Ser518.						
Source / Purifi	<b>Durce / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide correspon residues surrounding Ser518 of human merlin protein.				rresponding to			
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	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ley	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
Trademarks aı	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		XP is a registered trad	emark of Cell Signa	ling Technology, Inc.				
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for		
Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized repress the following terms apply to Products provided by CST, its affiliates or its distributors. It terms and conditions that are in addition to, or different from, those contained herein, separately accepted in writing by a legally authorized representative of CST, are rejected force or effect.						. Any Customer's n, unless		
				se Only or a similar labe or other regulatory fore				

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.