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Phospho-Merlin (Ser518) (D5A4I) Rabbit



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| Applications: W, IP | Reactivity: H M R Mk | 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 | Phospho-Merlin (Ser518) (D5A4I) Rabbit mAb recognizes endogenous levels of merlin protein only when phosphorylated at Ser518. | | | | | | |
| Source / Purifi | Durce / Purification 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 | | | | | | |
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