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Phospho-GEF-H1 (Ser886) (E1L6D) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q92974	Entrez-Gene Id: 9181
Product Usage Information		Application Western Blotting		Dilution 1:1000		
Storage	Sup	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 / Sensitivity		Phospho-GEF-H1 (Ser886) (E1L6D) Rabbit mAb recognizes endogenous levels of GEF-H1 protein only when phosphorylated at Ser886.				
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunizing animals with a synthetic phosphopeptide correspondence of the produced by immunication and th					otide corresponding to	
Background	diffe excl in re to a 3-3 regu GEF GEF	Rho family small GTPases regulate processes such as cell migration, adhesion, proliferation, and differentiation. They are activated by guanine nucleotide exchange factors (GEFs), which catalyze the exchange of GDP for GTP. GEF-H1 is a Rho GEF that localizes to microtubules and regulates Rho activity in response to microtubule destabilization (1). Loss of interaction between GEF-H1 and microtubules leads to activation of Rho (2). Phosphorylation of GEF-H1 at Ser886 (Ser885 in mouse), a site located in the 14-3-3 binding motif, has been implicated in recruitment of 14-3-3 and GEF-H1 to microtubules (3), and in the regulation of RhoA activity in response to mitotic kinases during cytokinesis (4). GEF-H1 has also been shown to localize to tight junctions and modulate polarized cell permeability (5,6). GEF-H1 is inactivated by binding to cingulin at epithelial tight junctions, inactivating RhoA and leading to G1/S arrest (6).				
Background Refere	2. K 3. Z 4. B 5. B	 Ren, Y. et al. (1998) J Biol Chem 273, 34954-60. Krendel, M. et al. (2002) Nat Cell Biol 4, 294-301. Zenke, F.T. et al. (2004) J Biol Chem 279, 18392-400. Birkenfeld, J. et al. (2007) Dev Cell 12, 699-712. Benais-Pont, G. et al. (2003) J Cell Biol 160, 729-40. Aijaz, S. et al. (2005) Dev Cell 8, 777-86. 				

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

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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