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HEF1/NEDD9 (2G9) Mouse mAb

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 105, 115	Source/Isotype: Mouse IgG1	UniProt ID: #Q14511	Entrez-Gene Id: 4739			
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:100				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.							
Specificity / Sensi	tivity HE	HEF1/NEDD9 (2G9) Mouse mAb detects endogenous levels of total HEF1/NEDD9 protein.							
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a recombinant protein fragment corresponding to residues from the human HEF1/NEDD9 protein.							
Background	dev HE adl of t bas ind coo HE link	Human enhancer of filamentation protein 1 (HEF1), also known as neural precursor cell expressed developmentally down-regulated protein 9 (NEDD9), is part of the Cas family of proteins, which include HEF1/NEDD9, p130Cas and Efs (1). HEF1 is a predominantly cytoplasmic protein, localizing to focal adhesions during interphase, and centrosomes and other parts of the mitotic apparatus during G2/M phase of the cell cycle (2). HEF1 is a docking protein that plays a central coordinating role for tyrosine kinase-based signaling related to cell adhesion, motility, growth and apoptosis (1). Phosphorylation of HEF1 is induced by a number of factors, including FAK, TGF- β , PDGFR, Abl, and BCR-ABL, which leads to coordinate binding of multiple downstream effector proteins via 15 known SH2 domain-binding sites (1). HEF1 is a key regulator of cancer metastasis. It is required for the invasive activity of glioblastomas (3), is linked to the promotion of metastasis in melanoma (4), and is found to be up-regulated in lung cancer metastasis (5).							
Background Refe	2. L 3. M 4. H	Law, S.F. et al. (1998) Natarajan, M. et al. (20 Kim, M. et al. (2006) C	Jeill, G.M. et al. (2007) <i>Cancer Res</i> 67, 8975-9. w, S.F. et al. (1998) <i>Mol Cell Biol</i> 18, 3540-51. tarajan, M. et al. (2006) <i>Oncogene</i> 25, 1721-32. n, M. et al. (2006) <i>Cell</i> 125, 1269-81. H. et al. (2007) <i>Nature</i> 448, 807-10.						
Species Reactivity	y Spe	ecies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern blot).			
Western Blot Buff	Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dr milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.								
Applications Key	WE	B: Western Blotting IP:	Immunoprecipi	tation					
Cross-Reactivity F	X: ×	 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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HEF1/NEDD9 (2G9) Mouse mAb (#4044) Datasheet Without Images Cell Signaling Technology

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