HIP2 (D27C4) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #P61086	Entrez-Gene Id: 3093
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:100				
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/Sensitivity		HIP2 (D27C4) Rabbit mAb recognizes endogenous levels of total HIP2 protein.				
Species predicted to react based on 100% sequence homology		Bovine				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu161 of human HIP2 protein.				
Background		Protein ubiquitination requires the concerted action of the E1, E2, and E3 ubiquitin-conjugating enzymes. Ubiquitin is first activated through ATP-dependent formation of a thiol ester with ubiquitin-activating enzyme E1. The activated ubiquitin is then transferred to a thiol group of ubiquitin-carrier enzyme E2. The final step is the transfer of ubiquitin from E2 to an ε-amino group of the target protein lysine residue, which is mediated by ubiquitin-ligase enzyme E3 (1). Huntingtin-interacting protein-2 (HIP2), also known as E2-25K, is a member of the E2 protein family that is highly expressed in the brain and catalyzes multiubiquitin chain synthesis via Lys48 of ubiquitin (2). E2-25K is reportedly involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with amyloid-β, huntingtin, and MHC-heavy chain proteins (3-6). Recent studies have also implicated HIP2 in the control of apoptosis and cell-cycle progression through its ability to regulate the stability of Smac/Diablo and cyclin B1 (7,8).				
Background References		 Hershko, A. (1988) J Biol Chem 263, 15237-40. Chen, Z. and Pickart, C.M. (1990) J Biol Chem 265, 21835-42. Song, S. et al. (2003) Mol Cell 12, 553-63. de Pril, R. et al. (2007) Mol Cell Neurosci 34, 10-9. Flierman, D. et al. (2006) Proc Natl Acad Sci USA 103, 11589-94. Kalchman, M.A. et al. (1996) J Biol Chem 271, 19385-94. Bae, Y. et al. (2010) Biochem Biophys Res Commun 397, 718-23. Bae, Y. et al. (2010) FEBS Lett 584, 4505-10. 				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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