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E2-25K/Hip2 Antibody



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source: Rabbit	UniProt ID: #P61086	Entrez-Gene Id: 3093
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 and 50% glycerol. 20°C. Do not aliquot the antibody.				
Specificity / Sensiti	vity E2-2	E2-25K/Hip2 Antibody detects endogenous levels of total E2-25K/Hip2 protein.				
Source / Purificatio	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg11 of human E2-25K/Hip2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	Ubic E1. is th med E2-2 of ul proc	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). E2-25K (Hip2) is a member of the E2 protein family that 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 (3-5). Lys14 of E2-25K can be modified by SUMOylation, with this modification resulting in inhibited E2 activity (6).				
Background Refere	2. C 3. S 4. de 5. Fl	 Hershko, A. (1988) J Biol Chem 263, 15237-40. Chen, Z. and Pickart, C.M. (1990) J. Biol. Chem. 265, 21835-21842. Song, S. et al. (2003) Mol. Cell 12, 553-563. de Pril, R. et al. (2007) Mol. Cell. Neurosci. 34, 10-19. Flierman, D. et al. (2006) Proc. Natl. Acad. Sci. USA 103, 11589-11594. Pichler, A. et al. (2005) Nat. Struct. Mol. Biol. 12, 264-269. 				

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: m

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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