

**#8226** Store at -20°C

## HIP2 (D27C4) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	25	Rabbit IgG	#P61086	3093

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:100
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	HIP2 (D27C4) Rabbit mAb recognizes endogenous levels of total HIP2 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Bovine	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu161 of human HIP2 protein.	
<b>Background</b>	<p>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).</p> <p>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).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Herskho, A. (1988) <i>J Biol Chem</i> 263, 15237-40.</li> <li>2. Chen, Z. and Pickart, C.M. (1990) <i>J Biol Chem</i> 265, 21835-42.</li> <li>3. Song, S. et al. (2003) <i>Mol Cell</i> 12, 553-63.</li> <li>4. de Pril, R. et al. (2007) <i>Mol Cell Neurosci</i> 34, 10-9.</li> <li>5. Flierman, D. et al. (2006) <i>Proc Natl Acad Sci USA</i> 103, 11589-94.</li> <li>6. Kalchman, M.A. et al. (1996) <i>J Biol Chem</i> 271, 19385-94.</li> <li>7. Bae, Y. et al. (2010) <i>Biochem Biophys Res Commun</i> 397, 718-23.</li> <li>8. Bae, Y. et al. (2010) <i>FEBS Lett</i> 584, 4505-10.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	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.	
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation	
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected	

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## **Limited Uses**

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