

#4944 Store at -20°C

HR6A/HR6B Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source: Rabbit	UniProt ID: #P49459, #P63146	Entrez-Gene Id: 7319, 7320
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Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:1000 1:100 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	HR6A/HR6B Antibody detects endogenous levels of total HR6A and HR6B proteins.	
Species predicted to react based on 100% sequence homology:	Chicken, D. melanogaster, Xenopus, Zebrafish	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids at the amino-terminus of human HR6A. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The ubiquitin-conjugating (UBC) enzymes HR6A and HR6B are the mammalian orthologues of the <i>Saccharomyces cerevisiae</i> Rad6 gene products (1). In <i>S. cerevisiae</i> , Rad6 facilitates cell cycle progression and ubiquitinates histone H2B (2,3). In vivo phosphorylation of HR6A Ser120 by cyclin-dependent kinases is thought to be important for the coordination and timing of ubiquitination events involved in cell cycle progression (4). In response to DNA damage, HR6A is known to interact physically with p53 and p14ARF, but knockout mice lacking HR6A or HR6B exhibit normal DNA damage responses (5,6). HR6B knockout males exhibit defective spermatogenesis, while HR6A knockout females fail to produce viable offspring (6).	
Background References	1. Koken, M. H. et al. (1991) <i>Proc. Natl. Acad. Sci. USA</i> 88, 8865-8869. 2. Ellison, K. S. et al. (1991) <i>J. Biol. Chem.</i> 266, 24116-24120. 3. Robzyk, K. et al. (2000) <i>Science</i> 287, 501-504. 4. Sarcevic, B. et al. (2002) <i>EMBO J.</i> 21, 2009-2018. 5. Lyakhovich, A. and Shekhar, M.P. (2003) <i>Mol. Cell. Biol.</i> 23, 2463-2475. 6. Roest, H. P. et al. (2004) <i>Mol. Cell. Biol.</i> 24, 5485-5495.	
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 IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
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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