

RNF40 (D2R2O) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #O75150	Entrez-Gene Id : 9810
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
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		RNF40 (D2R2O) Rabbit mAb recognizes endogenous levels of total RNF40 protein. This antibody does not cross-react with RNF20/BRE1A.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp537 of human RNF40 protein.				
Background		the identification of the enzyme Rad6, Bre1 set transcribed regions of and RNF40, were ident ligase responsible for linked to RNA Pol II-de that DNA double-stran process depends upon RNF20-RNF40 heterod Indeed, investigators h	e budding yeast p rves as the E3 ligas chromatin (1-3). S tified (4,5). These t histone H2B mono pendent transcrip d breaks (DSBs) an the recruitment t imer, thus highligh nave shown that lo	distone H2B ubiquitination of the monoubiquitination at Lys120 tion elongation in undarge also capable of inducing DSB sites, as well as AT of this E3 lights of RNF20-RNF40 function of the monoubidus of the monoubi	er with the ubiquiting tion of the yeast high alian orthologs of your heterodimer that a sin mammalian cell naged cells. Researn monoubiquitina Medependent phosase in DSB repair ption promotes replication of the year of the work which was the work of the wor	n-conjugating stone H2B within yeast Bre1, RNF20 acts as the major E3 s, a modification chers have shown tion of H2B. This sphorylation of the athways (6). cation stress and
Background References		 Wood, A. et al. (2003) Mol Cell 11, 267-74. Hwang, W.W. et al. (2003) Mol Cell 11, 261-6. Kao, C.F. et al. (2004) Genes Dev 18, 184-95. Kim, J. et al. (2005) Mol Cell 20, 759-70. Zhu, B. et al. (2005) Mol Cell 20, 601-11. Moyal, L. et al. (2011) Mol Cell 41, 529-42. Chernikova, S.B. et al. (2012) Cancer Res, Epub ahead of print. 				
Species Reactivi	ty	Species reactivity is de	termined by testir	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				

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

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