

Applications: W	Reactivity: H M R Mk	Sensitivity:	MW (kDa):	Source/Isotype: Rabbit	UniProt ID:	Entrez-Gene Id: 55666
VV		Endogenous	68, 71	Raddil	#Q8TAT6	00022
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		NPL4 Antibody recognizes endogenous levels of total NPL4 protein.				
Species predicted to react based on 100% sequence homology		Chicken, Xenopus, Bovine, Dog, Horse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys322 of human NPL4 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Nuclear protein localization protein 4 (NPL4, NPLOC4) was originally identified as a yeast nuclear transport protein that was later recognized as a critical component of the endoplasmic reticulum-associated degradation (ERAD) pathway (1,2). Mammalian NPL4 protein has an amino-terminal ubiquitin-like domain containing a p97 binding site, and a conserved carboxy-terminal zinc finger (NZF) motif responsible for binding ubiquitinated target proteins (2,3). NPL4 binds ubiquitin fusion degradation protein 1 (UFD1) to form a heterodimer that associates with the p97 AAA-ATPase, creating a protein complex that mediates delivery of ubiquitinated ER proteins to the proteasome (4,5).				
Background References		1. Corbett, A. et al. (1996) <i>Exp Cell Res</i> 229, 212-6. 2. Meyer, H.H. et al. (2002) <i>EMBO J</i> 21, 5645-52. 3. Bebeacua, C. et al. (2012) <i>Proc Natl Acad Sci U S A</i> 109, 1098-103. 4. Stolz, A. et al. (2011) <i>Trends Biochem Sci</i> 36, 515-23. 5. Meyer, H.H. et al. (2000) <i>EMBO J</i> 19, 2181-92.				
Species Reactiv	vity	Species reactivity is de	termined by testing	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				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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