

#13489 Store at -20°C

NPL4 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	68, 71	Rabbit	#Q8TAT6	55666

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 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: 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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