

#60732 Store at -20C

NDP52 (D1E4A) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	52, 60	Rabbit IgG	#Q13137	10241

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	NDP52 (D1E4A) Rabbit mAb recognizes endogenous levels of total NDP52 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val135 of human NDP52 protein.	
Background	NDP52 (CALCOCO2) is ubiquitously expressed and composed of an amino-terminal SKICH domain, followed by a coiled-coil domain, and two zinc finger domains (1). It has recently been reported to act as an autophagy receptor that binds cytosolic ubiquitinated bacteria, leading to autophagy activation and pathogen clearance (1-3). NDP52 binds ubiquitin through its zinc finger domain and simultaneously binds LC3, which directs the bacteria into autophagosomes. In addition, NDP52 interacts with Nap1 and SINTBAD to recruit TBK1 to ubiquitinated bacteria (1).	
Background References	1. Thurston, T.L. et al. (2009) <i>Nat Immunol</i> 10, 1215-21. 2. Cemma, M. et al. (2011) <i>Autophagy</i> 7, 341-5. 3. Mostowy, S. et al. (2011) <i>J Biol Chem</i> 286, 26987-95.	

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 nonfat dry milk, 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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