

p67phox Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 67	Source/Isotype: Rabbit	UniProt ID: #P19878	Entrez-Gene Id: 4688
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		p67phox Antibody detects endogenous levels of total p67phox protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala25 of human p67phox. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		superoxide in responsible membrane-bound cytosolic complex of poxidase is initiated by leads to the transloca with cytochrome b55and a nearby homolo stress due to increase (5,6). p67phox appears to cwell as the α subunit	se to pathogenic in d p91 phox and p22 p40phox, p47phox a cytosolic complex tion of the cytosolic B (1). Defects in p47 gous pseudogene, ed myocardial NADF coordinate assembly of heterotrimeric G	protein enzyme that cat vasion. The NADPH oxid. phox heterodimers (als and p67phox, and the sn phosphorylation, which is complex to the membr phox, often resulting fro cause chronic granulom PH oxidase activity may by of NAPDH oxidase as it proteins (7). Mutations is	ase consists of 6 su o known as cytochr nall GTPase Rac2. A induces a conforma ane and formation om recombination b atous disease (2-4) be a contributing fa associates with mu in the correspondin	bunits, including ome b558), the ctivation of NADPH ational change that of an active enzyme between p47phox. Elevated oxidative ctor in heart failure ultiple subunits as g p67phox gene
Background References		1. Babior, B.M. (1999) <i>Blood</i> 93, 1464-76. 2. Noack, D. et al. (2001) <i>Blood</i> 97, 305-11. 3. Görlach, A. et al. (1997) <i>J Clin Invest</i> 100, 1907-18. 4. Chanock, S.J. et al. (2000) <i>Blood Cells Mol Dis</i> 26, 37-46. 5. Heymes, C. et al. (2003) <i>J Am Coll Cardiol</i> 41, 2164-71. 6. Doerries, C. et al. (2007) <i>Circ Res</i> 100, 894-903. 7. Marty, C. et al. (2006) <i>Mol Cell Biol</i> 26, 5190-200. 8. Leto, T.L. et al. (1990) <i>Science</i> 248, 727-30.				
Species Reactivi	ty	Species reactivity is d	etermined by testin	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

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