

# Anti-p22 phox Antibody

Catalog # AP53757

## Product Information

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Application	WB
Primary Accession	<a href="#">P13498</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21013

## Additional Information

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Gene ID	1535
Other Names	Cytochrome b-245 light chain; Cytochrome b(558) alpha chain; Cytochrome b558 subunit alpha; Neutrophil cytochrome b 22 kDa polypeptide; Superoxide-generating NADPH oxidase light chain subunit; p22 phagocyte B-cytochrome; p22-phox; p22phox
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human p22 phox. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	CYBA ( <a href="#">HGNC:2577</a> )
Function	Subunit of NADPH oxidase complexes that is required for the NADPH oxidase activity that generates, in various cell types, superoxide from molecular oxygen utilizing NADPH as an electron donor (PubMed: <a href="#">15824103</a> , PubMed: <a href="#">17140397</a> , PubMed: <a href="#">38355798</a> ). Subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O <sub>2</sub> to produce the superoxide anion (O <sub>2</sub> <sup>-</sup> ) (PubMed: <a href="#">38355798</a> ). In the activated complex, electrons are first transferred from NADPH to flavin adenine dinucleotide (FAD) and subsequently transferred via two heme molecules to molecular oxygen, producing superoxide through an outer-sphere reaction (PubMed: <a href="#">38355798</a> ). Activation of the NADPH oxidase complex is initiated by the assembly of cytosolic subunits of the NADPH oxidase complex with the core NADPH oxidase complex to form a complex at the plasma membrane or phagosomal membrane (PubMed: <a href="#">38355798</a> ). This

activation process is initiated by phosphorylation dependent binding of the cytosolic NCF1/p47-phox subunit to the C-terminus of CYBA/p22-phox (PubMed:[19948736](#)). Associates with NOX3 to form a functional NADPH oxidase constitutively generating superoxide (PubMed:[15824103](#), PubMed:[17140397](#)).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

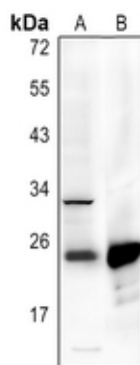
**Background**

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Rabbit polyclonal antibody to p22 phox

**Images**

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Western blot analysis of p22 phox expression in HEK293T (A), mouse spleen (B) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.