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Anti-CYBA / p22phox Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18116

Specification

Anti-CYBA / p22phox Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P13498
Predicted	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**21013**

Anti-CYBA / p22phox Antibody - Additional Information

Gene ID 1535

Alias Symbol	**CYBA**

Other Names
CYBA, Cytochrome b(558) alpha chain, Cytochrome b-245 light chain, Cytochrome b558 subunit alpha, p22 phagocyte B-cytochrome, p22-PHOX, Cytochrome b light chain, p22phox

Target/Specificity
Human CYBA / p22phox

Reconstitution & Storage
Immunoaffinity purified

Precautions
Anti-CYBA / p22phox Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CYBA / p22phox Antibody - Protein Information

Name CYBA (HGNC:2577)

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:15824103, PubMed:17140397, PubMed:38355798). Subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O2 to produce the superoxide anion (O2(-)) (PubMed:38355798). 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="http://www.uniprot.org/citations/38355798" target="_blank">38355798). 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:38355798). 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). Aassociates with NOX3 to form a functional NADPH oxidase constitutively generating superoxide (PubMed:15824103, PubMed:17140397).

Cellular Location
Cell membrane; Multi-pass membrane protein

Anti-CYBA / p22phox Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CYBA / p22phox Antibody - Images