Datasheet for ABIN750538

anti-CYBA antibody (AA 21-120)

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Overview

Quantity:	100 µL
Target:	CYBA
Binding Specificity:	AA 21-120
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYBA antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CK18 Cytochrome b245 Light Chain/p22phox
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CYBA
Alternative Name:	Cytochrome b245 Light Chain (CYBA Products)

Target Details

Background:	Synonyms: p22-PHOX, 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, p22phox, CYBA Background: Critical component of the membrane-bound oxidase of phagocytes that generates superoxide. Associates with NOX3 to form a functional NADPH oxidase constitutively generating superoxide.
Gene ID:	1535
UniProt:	P13498
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, Carbohydrate Homeostasis

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Song, Zhang, Han, Zhang, Zhang, Gao, Zhang, Chu, Zhao: "Potential mechanisms underlying the protective effects of salvianic acid A against atherosclerosis in vivo and vitro." in: **Biomedicine & pharmacotherapy**, Vol. 109, pp. 945-956, (2019) (PubMed).

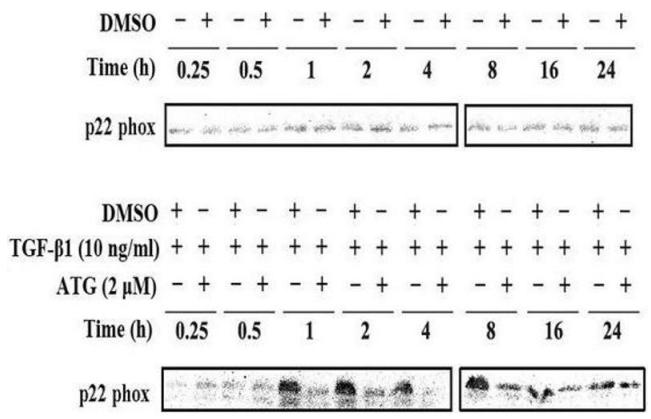
Yue, Wang, Wang, Du, Shen, Tang, Wang, Yin: "Bletilla striata polysaccharide inhibits angiotensin II-induced ROS and inflammation via NOX4 and TLR2 pathways." in: **International journal of biological macromolecules**, Vol. 89, pp. 376-88, (2016) (PubMed).

Yoshida, Murayama, Kawashima, Nagahara, Kangawa, Mizukami, Kimura, Abe, Hayashi, Shibutani: "Apocynin and enzymatically modified isoquercitrin suppress the expression of a NADPH oxidase subunit p22phox in steatosis-related preneoplastic liver foci of rats." in: **Experimental and toxicologic pathology : official journal of the Gesellschaft für Toxikologische Pathologie**, Vol. 69, Issue 1, pp. 9-16, (2016) (PubMed).

Li, Wang, Zhu, Zhang, Pan, Wang et al.: "Arctigenin suppresses transforming growth factor-?1-induced expression of monocyte chemoattractant protein-1 and the subsequent epithelial-mesenchymal transition through reactive oxygen ..." in: **Free radical research**, Vol. 49, Issue 9, pp. 1095-113, (2015) (PubMed).

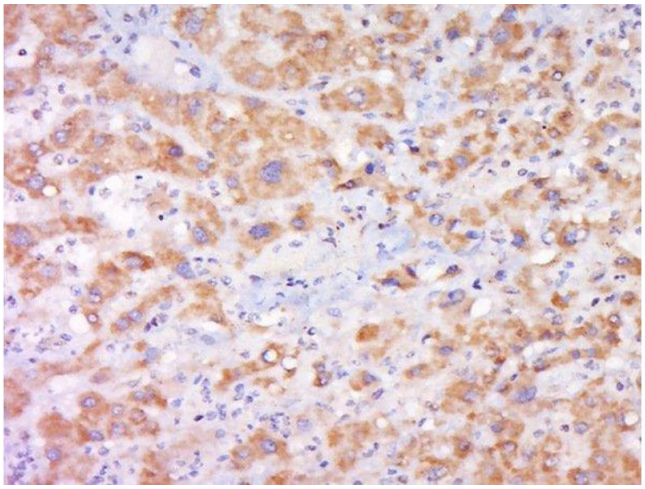
Walton, Shin, Tajinda, Heusner, Kogan, Miyake, Chen, Tamura, Matsumoto: "Adult neurogenesis transiently generates oxidative stress." in: **PLoS ONE**, Vol. 7, Issue 4, pp. e35264, (2012) (PubMed).

Images



Western Blotting

Image 1. This image was generously provided by Ao Li, MD from Chongqing University of Technology. Serum-starved HK-2 cells were pretreated with DMSO (vehicle) or ATG (2 μM) for 4 h, and then incubated with 10 ng/ml TGF-β1 for 0.25–24 hr



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded human liver cancer, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Rabbit Anti-Cytochrome b245 Light Chain Polyclonal Antibody, Unconjugated at 1:500 overnight at 4°C, followed by a conjugated secondary and DAB staining.