Data Sheet (Cat.No.TMAC-02878)

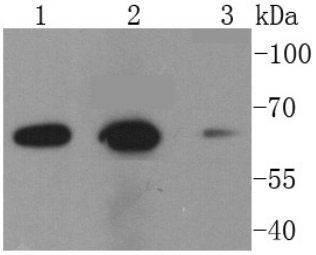
Anti-CYBB Antibody (6N434)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 65 kDa.
Clone:	6N434
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of NOX2 on different lysates using anti-NOX2 antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7, Lane 2: THP-1, Lane 3: HepG2.



Application:	WB
Recommended	WB: 1:1000-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P04839
Synonyms:	NADPH oxidase 2;gp91-1;gp91-phox;p22 phagocyte B-cytochrome;Heme-binding membrane glycoprotein gp91phox;CGD91-phox;CYBB;NOX2;Cytochrome b(558) subunit beta (Cytochrome b558 subunit beta);Superoxide-generating NADPH oxidase heavy chain subunit;Cytochrome b-245 heavy chain;Neutrophil cytochrome b 91 kDa polypeptide

Research Background

Mox1 and the glycoprotein gp91-phox are largely related proteins that are essential components of the NADPH oxidase. The superoxide-generating NADPH oxidase is present in phagocytes, neuroepithelial bodies, vascular smooth muscle cells and endothelial cells. It includes a membrane-bound flavocytochrome containing two subunits, gp91-phox and p22-phox, and the cytosolic proteins p47-phox and p67-phox. During activation of the NADPH oxidase, p47-phox and p67-phox migrate to the plasma membrane, where they associate with the flavocytochrome cytochrome b558 to form the active enzyme complex. The p22- and gp91-phox subunits also function as surface O2

sensors that initiate cellular signaling in response to hypoxic conditions. Mox1 and gp91 contain identical C-terminal sequence identity, yet they have distinct expression patterns. gp91-phox is expressed in eosinophils, neutro-phils, monocytes and B-lymphocytes, whereas Mox1 is predominantly detected in the colon, and low expression is also detected in the uterus and prostate. Mox1 is also upregulated in vascular smooth-muscle cells in response to PDGF stimulation, which collectively indicates that Mox1 may function analogously to gp91-phox, yet regulate the NADPH superoxide production in non-phagocytic cells.

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