

NOX2 Recombinant antibody

Catalog Number: 82872-1-RR

Basic Information

Catalog Number: 82872-1-RR	GenBank Accession Number: BC032720	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 1536	CloneNo.: 1B17
Source: Rabbit	UNIPROT ID: P04839	Recommended Dilutions: IF-P 1:1000-1:4000
Isotype: IgG	Full Name: cytochrome b-245, beta polypeptide	
Immunogen Catalog Number: AG4402	Calculated MW: 577 aa, 65 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications: IF-P, FC (Intra), ELISA	Positive Controls: IF-P : mouse spleen tissue,
Species Specificity: human, mouse, rat	

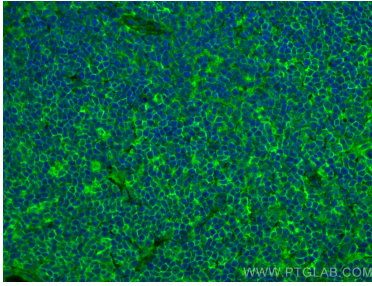
Background Information

NOX2, also named as CYBB, CGD, 91-phox, gp91-1, gp91-phox, p22 phagocyte B-cytochrome, cytochrome b-245 and beta polypeptide, is a critical component of the membrane-bound oxidase of phagocytes that generates superoxide. It is the terminal component of a respiratory chain that transfers single electrons from cytoplasmic NADPH across the plasma membrane to molecular oxygen on the exterior. This full length protein has three glycosylation sites. CYBB is found in human cardiomyocytes as multiple bands: the signal between 55 and 65 kDa is probably the unglycosylated protein, because the predicted molecular weight of unglycosylated CYBB protein is approximately 58 kDa (PMID: 17587483) to 65 kDa in phagocytes and the bands around 80 kDa probably represent glycosylated CYBB, as has also been shown in human umbilical vein endothelial cells (PMID: 12610097). In other reports, it also can be detected a band of 91 kDa (PMID: 19965781).

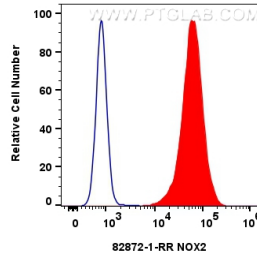
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

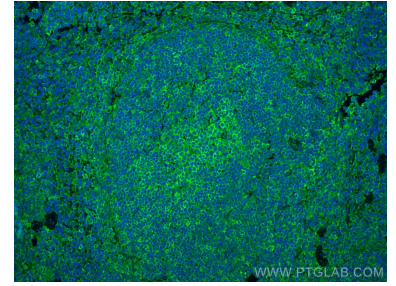
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using NOX2 antibody (82872-1-RR, Clone: 1B17) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ RAW 264.7 cells were intracellularly stained with 0.25 ug NOX2 Recombinant antibody (82872-1-RR, Clone:1B17) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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