

CoraLite® Plus 488-conjugated NOX2 Recombinant monoclonal antibody

Catalog Number: CL488-82872

Basic Information

Catalog Number: CL488-82872	GenBank Accession Number: BC032720	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1536	CloneNo.: 1B17
Isotype: IgG	UNIPROT ID: P04839	Recommended Dilutions: IF-P: 1:50-1:500
Immunogen Catalog Number: AG4402	Full Name: cytochrome b-245, beta polypeptide	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 577 aa, 65 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P: mouse spleen tissue,
Species Specificity: human, mouse, rat	

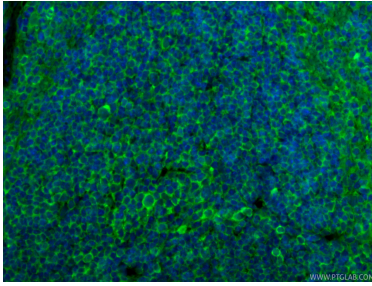
Background Information

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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CoraLite® Plus 488 NOX2 antibody (CL488-82872, Clone: 1B17) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).