

For Research Use Only

# CoraLite® Plus 488-conjugated NOX2 Recombinant monoclonal antibody

Catalog Number: **CL488-82872**



## Basic Information

<b>Catalog Number:</b> CL488-82872	<b>GenBank Accession Number:</b> BC032720	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1536	<b>CloneNo.:</b> 1B17
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04839	<b>Recommended Dilutions:</b> IF-P: 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> cytochrome b-245, beta polypeptide	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG4402	<b>Calculated MW:</b> 577 aa, 65 kDa	
	<b>Observed MW:</b> 55 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : mouse spleen tissue,
<b>Species Specificity:</b> 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

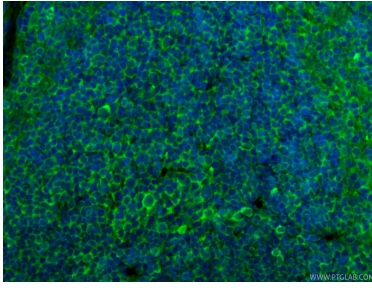
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## 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).