

For Research Use Only

CoraLite® Plus 488-conjugated NOX2 Polyclonal antibody

Catalog Number: CL488-19013

Featured Product



Basic Information

Catalog Number:

CL488-19013

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5536

GenBank Accession Number:

BC032720

GeneID (NCBI):

1536

UNIPROT ID:

P04839

Full Name:

cytochrome b-245, beta polypeptide

Calculated MW:

577 aa, 65 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

WB, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

WB : RAW 264.7 cells, mouse spleen tissue, rat spleen tissue

FC (Intra) : RAW 264.7 cells,

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 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). In our results, it reveals the bands of 55-65 kDa and 80 kDa besides a band of 140 kDa that we do not find the reason.

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:

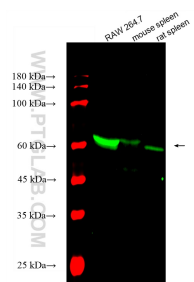
T: 4006900926

E: Proteintech-CN@ptglab.com

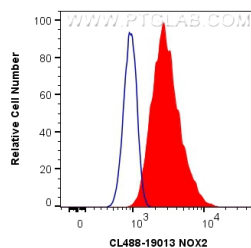
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL488-19013 (NOX2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



1X10⁶ RAW 264.7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human NOX2 (CL488-19013) (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.