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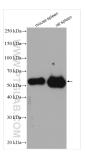
NOX2 Polyclonal antibody Catalog Number: 19013-1-AP Featured Product

199 Publications

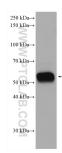


| Basic Information | Catalog Number: 19013-1-AP | GenBank Accession Number: BC032720 | Purification Method: Antigen affinity purification |
|---|---|--|---|
| | Size: 150ul, Concentration: 650 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5536 | GeneID (NCBI): 1536 UNIPROT ID: P04839 Full Name: cytochrome b-245, beta polyp Calculated MW: 577 aa, 65 kDa Observed MW: 555 kDa | Recommended Dilutions: WB: 1:2000-1:8000 IHC: 1:500-1:2000 IF-P: 1:200-1:800 FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension |
| Applications | Tested Applications: | Positive Controls: | |
| | WB, IHC, IF-P, FC (Intra), ELISA Cited Applications: | | ouse spleen tissue, Jurkat cells, Raji cells, 1 plasma, rat spleen tissue |
| | WB, IHC, IF, CoIP Species Specificity: | IHC : h | uman tonsillitis tissue, mouse spleen tissue |
| | human, mouse, rat | IF-P : n | nouse spleen tissue, human tonsillitis tissue |
| | Cited Species: FC (Intra): RAW 264.7 cells, MCF-7 cells human, mouse, rat, pig, rabbit, canine | | |
| | Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0 | vely, antigen | |
| | 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). | | |
| Background Information | beta polypeptide, is a critical compo It is the terminal component of a resp the plasma membrane to molecular CYBB is found in human cardiomyocy unglycosylated protein, because the 58 kDa(PMID: 17587483) to 65 kDa in CYBB, as has also been shown in hum | nent of the membrane-bound op piratory chain that transfers sing poxygen on the exterior. This full rtes as multiple bands:the signa predicted molecular weight of to phagocytes and the bands arou an umbilical vein endothelial | kidase of phagocytes that generates superoxic gle electrons from cytoplasmic NADPH across I length protein has three glycosylation sites. Il between 55 and 65 kDa is probably the unglycosylated CYBB protein is approximately und 80 kDa probably represent glycosylated |
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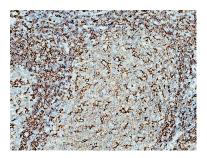
Selected Validation Data



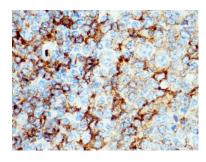
Various lysates were subjected to SDS PAGE followed by western blot with 19013-1-AP (NOX2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



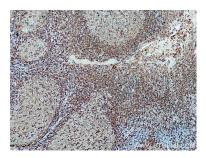
mouse spleen tissue were subjected to SDS PAGE followed by western blot with 19013-1-AP (NOX2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



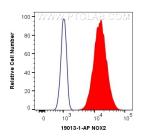
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 19013-1-AP (NOX2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



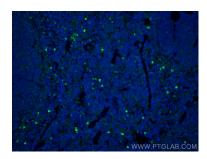
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 19013-1-AP (NOX2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 19013-1-AP (NOX2 antibody) at dilution of 1:1000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 RAW 264.7 cells were intracellularly stained with 0.4 ug Anti-Human NOX2 (19013-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using NOX2 antibody (19013-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).