NOX2
Polyclonal ANTIBODY
Catalog Number: 19013-1-AP

Basic Information
Catalog Number: 19013-1-AP
GenBank Accession Number: BC027720
Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:100-1:400

Size:
40 μg/150 μl

Source:
Rabbit

Purification Method:
Antigen affinity purification

Immunogen Catalog Number: AG5536

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Applications
Tested Applications:
IHC, WB, ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note: suggested antigen retrieval with TE buffer pH 9.0; [*] Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
NOX2, also named as CYBB, COD, 91-phox, gp91-1, gp91-phox, gp22 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.

Notable Publications
Author | Pubmed ID | Journal | Application
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Yixuan Sun | 26900036 | Sci Rep | WB
J L Tarry-Adkins | 27566664 | Dis Model Mech | WB
Kai Cui | 3031248 | Andrologia | WB

Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aloquing 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
W: ptglab.com

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mouse brain tissue were subjected to SDS PAGE followed by western blot with 19013-1-AP (NOX2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human skin tissue slide using 19013-1-AP (NOX2 antibody) at dilution of 1:200 (under 40x lens)