

For Research Use Only

NOX5 Polyclonal antibody

Catalog Number: 25350-1-AP

14 Publications



Basic Information

Catalog Number:

25350-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18673

GenBank Accession Number:

BC125098

GeneID (NCBI):

79400

UNIPROT ID:

Q96PH1

Full Name:

NADPH oxidase, EF-hand calcium binding domain 5

Calculated MW:

765 aa, 86 kDa

Observed MW:

82-86 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, ColP, PLA

Species Specificity:

human

Cited Species:

human, pig, monkey

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Jurkat cells, Raji cells

IHC: human spleen tissue,

Background Information

NOX5 (NADPH oxidase, EF-hand calcium binding domain 5) is an NADPH oxidase that generates superoxide and functions as an H⁺ channel in a Ca²⁺-dependent manner. It plays an important role in PDGF-induced JAK/STAT activation and human aortic smooth muscle cell (HASMC) proliferation. NOX5 is the main source of superoxide and is implicated in human spermatozoa motility. This protein has 6 isoforms produced by alternative splicing, named NOX5- α , - β , - γ , - δ , - ϵ and - ζ with the molecular mass of 84, 82, 86, 85, 64 and 83 kDa (PMID: 22427510 and Uniprot).

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Wu	31727371	Biochem Biophys Res Commun	WB
Elizabeth A Sweeny	34139309	Free Radic Biol Med	WB
Qi Liu	32738790	Biomed Pharmacother	WB, ColP, PLA

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

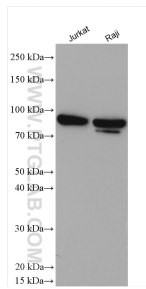
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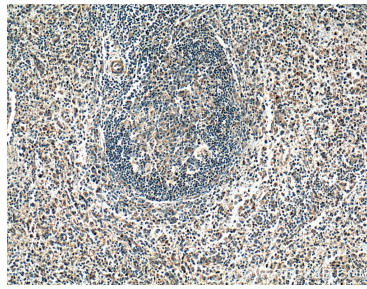
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25350-1-AP (NOX5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 25350-1-AP (NOX5 Antibody) at dilution of 1:200 (under 10x lens).