

NOX5 Polyclonal antibody

Catalog Number: 25350-1-AP

13 Publications

Basic Information

Catalog Number: 25350-1-AP	GenBank Accession Number: BC125098	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 340 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 79400	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	Full Name: NADPH oxidase, EF-hand calcium binding domain 5	
Isotype: IgG	Calculated MW: 765 aa, 86 kDa	
Immunogen Catalog Number: AG18673	Observed MW: 82-86 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: ColP, PLA, WB	WB: Jurkat cells, Raji cells
Species Specificity: human	IHC: human spleen tissue,
Cited Species: human, monkey, pig	

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

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

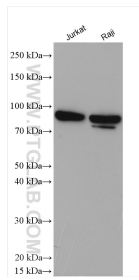
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

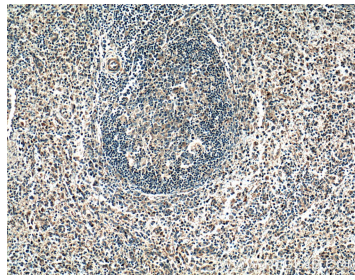
For technical support and original validation data for this product please contact:
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Selected Validation Data



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).