

Product Name: Nox5 Rabbit Polyclonal Antibody**Catalog #: APRab14816**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	86kDa

Antigen Information

Gene Name	NOX5
Alternative Names	NOX5; NADPH oxidase 5
Gene ID	79400.0
SwissProt ID	Q96PH1
Immunogen	The antiserum was produced against synthesized peptide derived from human NOX5. AA range:677-726

Background

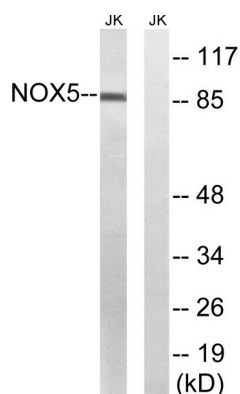
This gene is predominantly expressed in the testis and lymphocyte-rich areas of spleen and lymph nodes. It encodes a calcium-

dependen NADPH oxidase that generates superoxide, and functions as a calcium-dependent proton channel that may regulate redox-dependent processes in lymphocytes and spermatozoa. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011],cofactor:FAD.,cofactor:Magnesium.,developmental stage:Expressed in fetal tissues.,enzyme regulation:Activated by calcium which induces conformational changes and interaction between the N-terminal regulatory region and the C-terminal catalytic region. Inhibited by diphenylene iodonium.,function:Calcium-dependent NADPH oxidase that generates superoxide. Also functions as a calcium-dependent proton channel and may regulate redox-dependent processes in lymphocytes and spermatozoa. May play a role in cell growth and apoptosis.,induction:Down-regulated by TGF β 1.,miscellaneous:Isoforms 3 and 4 of this protein have four functional calcium-binding sites. Isoforms 1 and 2 have the third EF-hand domain interrupted by an insert.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 ferric oxidoreductase domain.,similarity:Contains 4 EF-hand domains.,tissue specificity:Mainly expressed in pachytene spermatocytes of testis and in lymphocyte-rich areas of spleen and lymph nodes. Isoform 3 is expressed in spleen. Isoform 4 is expressed in testis. Also detected in ovary, placenta, pancreas, cardiac fibroblasts. Expressed in B-cells and prostate malignant cells.,

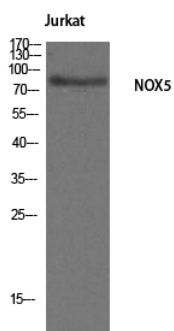
Research Area

Cell Biology; Other Antibodies; Oxidative Stress; Metabolism; Pathways and Processes; Redox metabolism; Oxidative stress; Plasma Membrane; Channels; Cell Biology; Cell Cycle; Cell differentiation; Apoptosis; Intracellular; Associated Proteins; Signal Transduction

Image Data



Western blot analysis of lysates from Jurkat cells, using NOX5 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of Jurkat cells using Nox5 Polyclonal Antibody

