

Nox5 Polyclonal Antibody

Catalog # AP71359

Product Information

Application	WB, IHC-P
Primary Accession	Q96PH1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86439

Additional Information

Gene ID	79400
Other Names	NOX5; NADPH oxidase 5
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

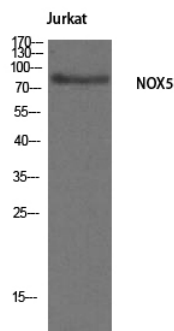
Protein Information

Name	NOX5 (HGNC:14874)
Function	Calcium-dependent NADPH oxidase that catalyzes the generation of superoxide from molecular oxygen utilizing NADPH as an electron donor (PubMed: 12686516). May play a role in cell growth and apoptosis (PubMed: 12686516).
Cellular Location	[Isoform v2]: Endoplasmic reticulum. Cell membrane; Multi-pass membrane protein. Note=Calcium-sensitive association and dissociation between the N- and C-terminal domains appears to facilitate its localization to the cell membrane
Tissue Location	Mainly expressed in pachytene spermatocytes of testis and in lymphocyte-rich areas of spleen and lymph nodes. Also detected in ovary, placenta, pancreas, cardiac fibroblasts. Expressed in B-cells and prostate malignant cells. [Isoform v2]: Expressed in microvascular endothelial cells (at protein level) (PubMed: 17275676). Expressed in testis (PubMed: 11483596). Expressed in endothelial cells and pulmonary artery smooth muscle cells (PubMed: 17275676 , PubMed: 22427510) [Isoform v4]: Expressed in endothelial cells and pulmonary artery smooth muscle cells.

Background

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. Isoform v2 and isoform v5 are involved in endothelial generation of reactive oxygen species (ROS), proliferation and angiogenesis and contribute to endothelial response to thrombin.

Images



Western Blot analysis of Jurkat cells using Nox5 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.