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ENOX2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12957a

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	Q16206
Other Accession	NP_006366.2, NP_872114.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32078
Calculated MW	70082
Antigen Region	1-30

Additional Information

Gene ID	10495
Other Names	Ecto-NOX disulfide-thiol exchanger 2, APK1 antigen, Cytosolic ovarian carcinoma antigen 1, Tumor-associated hydroquinone oxidase, tNOX, Hydroquinone [NADH] oxidase, 1---, Protein disulfide-thiol oxidoreductase, 1---, ENOX2, COVA1
Target/Specificity	This ENOX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ENOX2.
Dilution	IHC-P~~1:100 FC~~1:10~50 WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ENOX2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ENOX2

Synonyms	COVA1
Function	May be involved in cell growth. Probably acts as a terminal oxidase of plasma electron transport from cytosolic NAD(P)H via hydroquinones to acceptors at the cell surface. Hydroquinone oxidase activity alternates with a protein disulfide-thiol interchange/oxidoreductase activity which may control physical membrane displacements associated with vesicle budding or cell enlargement. The activities oscillate with a period length of 22 minutes and play a role in control of the ultradian cellular biological clock.
Cellular Location	Cell membrane. Secreted, extracellular space. Note=Extracellular and plasma membrane-associated
Tissue Location	Found in the sera of cancer patients with a wide variety of cancers including breast, prostate, lung and ovarian cancers, leukemias, and lymphomas. Not found in the serum of healthy volunteers or patients with disorders other than cancer. Probably shed into serum by cancer cells. Found on the cell borders of renal, kidney and ovarian carcinomas but not on the borders of surrounding non- cancerous stromal cells

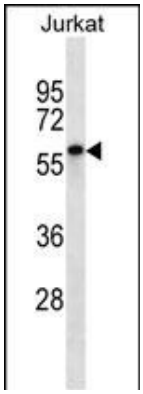
Background

The protein encoded by this gene is a growth-related cell surface protein. It was identifed because it reacts with the monoclonal antibody KI in cells, such as the ovarian carcinoma line OVCAR-3, also expressing the CAKI surface glycoprotein. The encoded protein has two enzymatic activities: catalysis of hydroquinone or NADH oxidation, and protein disulfide interchange. The two activities alternate with a period length of about 24 minutes. The encoded protein also displays prion-like properties. Two transcript variants encoding different isoforms have been found for this gene.

References

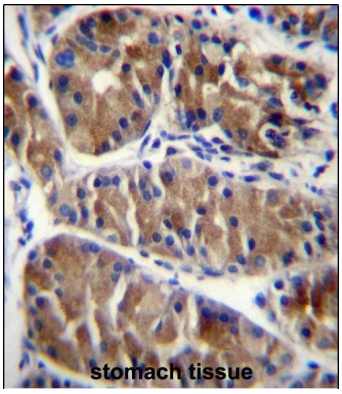
Morre, D.M., et al. Rejuvenation Res 13 (2-3), 162-164 (2010) :
Morre, D.M., et al. Biofactors 34(3):237-244(2009)
Mao, L.C., et al. FEBS Lett. 582 (23-24), 3445-3450 (2008) :
Liu, S.C., et al. Biochem. Biophys. Res. Commun. 365(4):672-677(2008)
Tang, X., et al. Oncol. Res. 16(12):557-567(2007)

Images

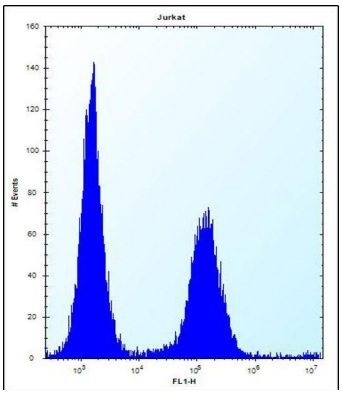


ENOX2 Antibody (N-term) (Cat. #AP12957a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the ENOX2 antibody detected the ENOX2 protein (arrow).

ENOX2 Antibody (N-term) (Cat. #AP12957a)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary



antibody and DAB staining.This data demonstrates the use of ENOX2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ENOX2 Antibody (N-term) (Cat. #AP12957a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.