

ENOX2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12957a**Specification**

ENOX2 Antibody (N-term) - 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
Calculated MW	70082
Antigen Region	1-30

ENOX2 Antibody (N-term) - 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.

ENOX2 Antibody (N-term) - 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

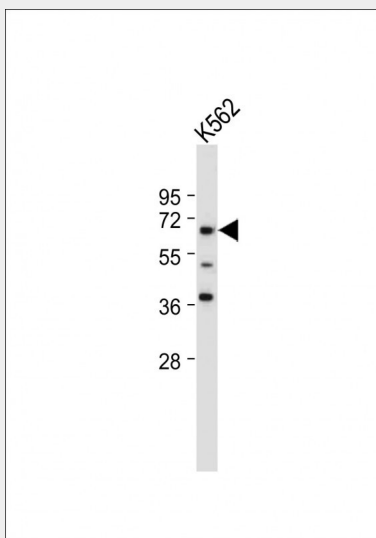
Found in the sera of cancer patients with a wide variety of cancers including breast, prostate, lung and ovarian cancers, leukemias, and lymphomas. Not found in the serum of healthy volunteers or patients with disorders other than cancer. Probably shed into serum by cancer cells. Found on the cell borders of renal, kidney and ovarian carcinomas but not on the borders of surrounding non-cancerous stromal cells

ENOX2 Antibody (N-term) - Protocols

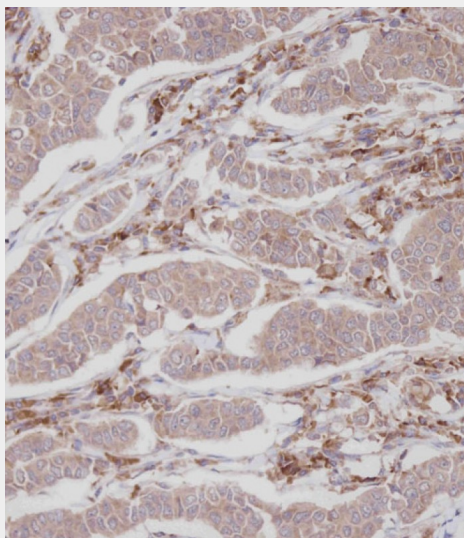
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

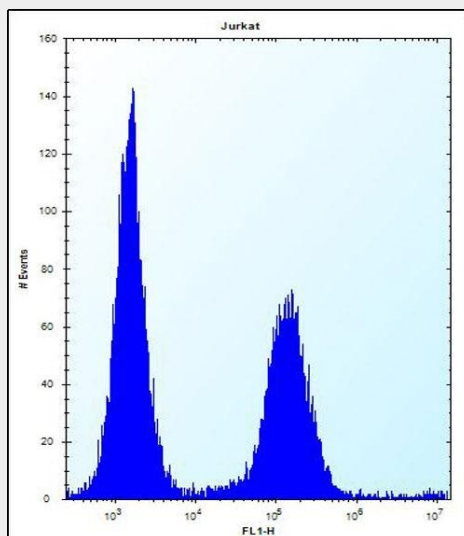
ENOX2 Antibody (N-term) - Images



Anti-ENOX2 Antibody (N-term) at 1:2000 dilution + K562 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 70 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of AP12957A on paraffin-embedded Human breast carcinoma tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



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.

ENOX2 Antibody (N-term) - Background

The protein encoded by this gene is a growth-related cell surface protein. It was identified 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.

ENOX2 Antibody (N-term) - 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)