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Datasheet for ABIN2781826
anti-GGCX antibody (Middle Region)

3 Images

Overview

Quantity:	100 µL
Target:	GGCX
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Rabbit, Cow, Sheep, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GGCX antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GGCX
Sequence:	FLLRKLYVFR RSFLMTCISL RNLILGRPSL EQLAQEVTYA NLRPF EAVGE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against GGCX. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GGCX
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Target Details

Alternative Name: [GGCX \(GGCX Products\)](#)

Background: GGCX is an enzyme which catalyzes the posttranslational modification of vitamin K-dependent protein. Many of these vitamin K-dependent proteins are involved in coagulation so the function of the encoded enzyme is essential for hemostasis. Mutations in this gene are associated with vitamin K-dependent coagulation defect and PXE-like disorder with multiple coagulation factor deficiency. Gamma-glutamyl carboxylase accomplishes the posttranslational modification required for the activity of all of the vitamin K-dependent proteins (Wu et al., 1991 [PubMed 1749935]). These include some of the blood coagulation and anticoagulation proteins as well as bone gamma-carboxyglutamic acid (Gla) protein (BGLAP, MIM 112260) and bone matrix protein (MGP, MIM 154870).[supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: FLJ26629, VKCFD1

Protein Interaction Partner: UBC, DCP2, FBXO6, F9, F10, F7, F2, PROC, BGLAP,

Protein Size: 758

Molecular Weight: 87 kDa

Gene ID: 2677

NCBI Accession: [NM_000821](#), [NP_000812](#)

UniProt: [P38435](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 758 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

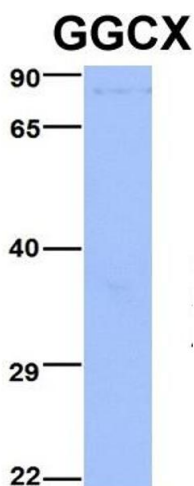
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Validation report #100008 for Western Blotting (WB)



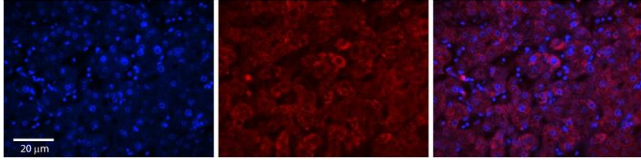
Western Blotting

Image 1. WB Suggested Anti-GGCX Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: MCF7 cell lysate. GGCX is strongly supported by BioGPS gene expression data to be expressed in MCF7



Western Blotting

Image 2. Host: Rabbit Target Name: GGCX Sample Type: Jurkat Antibody Dilution: 1.0ug/ml GGCX is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells



Immunohistochemistry

Image 3. Rabbit Anti-GGCX Antibody Formalin Fixed Paraffin Embedded Tissue: Human Adult Liver Observed Staining: Cytoplasm in hepatocytes, strong signal, wide tissue distribution Primary Antibody Concentration: 1:100 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 – 2.0 sec Protocol located in Reviews and Data.