GGCX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GGCX, Polyclonal Antibody
Full Product Name	GGCX Antibody, HRP conjugated
Product Gene Name	anti-GGCX antibody
Product Synonym Names	Vitamin K-dependent gamma-carboxylase; Gamma-glutamyl carboxylase; Peptidyl-glutamate 4-carboxylase; Vitamin K gamma glutamyl carboxylase; GGCX; GC
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: GGCX (MBS7105633) HRP Conjugated Antibody: GGCX (MBS7105634)
Molecular Weight	80,989 Da
OMIM	M81592 mRNA
3D Structure	ModBase 3D Structure for P38435
Immunogen	Recombinant Human Vitamin K-dependent gamma-carboxylase protein (383-526AA)
Conjugation	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-GGCX antibody	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GGCX antibody	ELISA (EIA)
Related Product Information for anti-GGCX antibody	Mediates the vitamin K-dependent carboxylation of glutamate residues to calcium-binding gamma-carboxyglutamate (Gla) residues with the concomitant conversion of the reduced hydroquinone form of vitamin K to vitamin K epoxide.
Other Notes	Small volumes of anti-GGCX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GGCX purchase	MBS7105634 is an antibody targeting GGCX. Also known as GGCX Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GGCX. It may not necessarily be applicable to this product.

NCBI GI #	21361163
NCBI GeneID	2677
NCBI Accession #	NP_000812.2
UniProt Primary Accession #	P38435
UniProt Secondary Accession #	Q14415; Q6GU45; B4DMC5; E9PEE1
UniProt Related Accession #	P38435
GenBank Nucleotide #	NM_000821.6
NCBI Official Full Name	vitamin K-dependent gamma-carboxylase isoform 1
NCBI Official Synonym Full Names	gamma-glutamyl carboxylase
NCBI Official Symbol	GGCX
NCBI Official Synonym Symbols	VKCFD1
UniProt Protein Name	Vitamin K-dependent gamma-carboxylase
UniProt Synonym Protein Names	Gamma-glutamyl carboxylase; Peptidyl-glutamate 4-carboxylase; Vitamin K gamma glutamyl carboxylase
Protein Family	Vitamin K-dependent gamma-carboxylase
UniProt Gene Name	GGCX
UniProt Synonym Gene Names	GC
NCBI Protein Information	vitamin K-dependent gamma-carboxylase
NCBI Summary for GGCX	This gene encodes an integral membrane protein of the rough endoplasmic reticulum that carboxylates glutamate residues of vitamin K-dependent proteins to gamma carboxyl glutamate, a modification that is required for their activity. The vitamin K-dependent protein substrates have a propeptide that binds the enzyme, with carbon dioxide, dioxide, and reduced vitamin K acting as co-substrates. Vitamin K-dependent proteins affect a number of physiologic processes including blood coagulation, prevention of vascular calcification, and inflammation. Allelic variants of this gene have been associated with pseudoxanthoma elasticum-like disorder with associated multiple coagulation factor deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]
Research Articles on GGCX	**1.** 2 causative GGCX mutations (c.1889-6G>A and c.1657delA) from the first reported clinical case of a VKCFD patient. The intronic mutation c.1889-6G>A affects GGCX splicing. Functional characterization of these 2 mutations suggests that truncation of GGCX from its C-terminus affects not only substrate binding but also protein stability.
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