ICMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ICMT, Polyclonal Antibody
Full Product Name	ICMT, CT (Protein-S-isoprenylcysteine O-methyltransferase, Isoprenylcysteine Carboxylmethyltransferase, Prenylcysteine Carboxyl Methyltransferase, pcCMT, Prenylated Protein Carboxyl Methyltransferase, PPMT, ICMT, PCCMT) (MaxLight 550)
Product Gene Name	anti-ICMT antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human ICMT.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	32kDa
OMIM	AF064084 mRNA
3D Structure	ModBase 3D Structure for O60725
Immunogen	Synthetic peptide selected from the C-terminal region of human ICMT (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ICMT antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-ICMT antibody	Western Blot (WB), FLISA
Application Notes for anti-ICMT antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ICMT antibody	MBS6483663 is an antibody targeting ICMT. Also known as ICMT, CT (Protein-S-isoprenylcysteine O-methyltransferase, Isoprenylcysteine Carboxylmethyltransferase, Prenylcysteine Carboxyl Methyltransferase, pcCMT, Prenylated Protein Carboxyl Methyltransferase, PPMT, ICMT, PCCMT) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ICMT antibody	1. Bergo, M.O., et al., J. Clin. Invest. 113(4):539-550 (2004). 2. Ahmad, M., et al., Arterioscler. Thromb. Vasc. Biol. 22(5):759-764 (2002). 3. Van Dessel, G.A., et al., Int. J. Biochem. Cell Biol. 34(5):477-486 (2002). 4. Dai, Q., et al., J. Biol. Chem. 273(24):15030-15034 (1998).

Other Notes	Small volumes of anti-ICMT 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.

ADDITIONAL DETAILS

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

NCBI GI #	6912430
NCBI GeneID	23463
NCBI Accession #	NP_036537
UniProt Primary Accession #	O60725
UniProt Related Accession #	O60725
GenBank Nucleotide #	NM_012405
NCBI Official Full Name	protein-S-isoprenylcysteine O-methyltransferase
NCBI Official Synonym Full Names	isoprenylcysteine carboxyl methyltransferase
NCBI Official Symbol	ICMT
NCBI Official Synonym Symbols	PCMT; PPMT; PCCMT; HSTE14; MST098; MSTP098
UniProt Protein Name	Protein-S-isoprenylcysteine O-methyltransferase
UniProt Synonym Protein Names	Isoprenylcysteine carboxylmethyltransferase; Prenylated protein carboxyl methyltransferase; PPMT; Prenylcysteine carboxyl methyltransferase; pcCMT
Protein Family	Probable protein-S-isoprenylcysteine O-methyltransferase
UniProt Gene Name	ICMT
UniProt Synonym Gene Names	PCCMT; PPMT; pcCMT
NCBI Protein Information	protein-S-isoprenylcysteine O-methyltransferase
NCBI Summary for ICMT	This gene encodes the third of three enzymes that posttranslationally modify isoprenylated C-terminal cysteine residues in certain proteins and target those proteins to the cell membrane. This enzyme localizes to the endoplasmic reticulum. Alternative splicing may result in other transcript variants, but the biological validity of those transcripts has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for ICMT	ICMT: Catalyzes the post-translational methylation of isoprenylated C-terminal cysteine residues. Belongs to the isoprenylcysteine O-methyltransferase family. Protein type: EC 2.1.1.100; Endoplasmic reticulum; Membrane protein, integral; Membrane protein, multi-pass; Methyltransferase; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 1p36.31 Cellular Component: endoplasmic reticulum; endoplasmic reticulum membrane; integral component of membrane; membrane Molecular Function: protein C-terminal carboxyl O-methyltransferase activity; protein-S-isoprenylcysteine O-methyltransferase activity Biological Process: C-terminal protein methylation; cellular protein modification process; post-translational protein modification; protein targeting to membrane
Research Articles on ICMT	**1.** Using cell culturing system, mouse model and patient samples, this work is the first to demonstrate the essential roles of Icmt in ovarian cancer via Ras signaling, particularly on its response to chemotherapy.

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