CUTC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CUTC, Polyclonal Antibody
Full Product Name	CUTC Polyclonal Antibody
Product Gene Name	anti-CUTC antibody
Product Synonym Names	Copper homeostasis protein cutC homolog; CUTC
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	29,341 Da
OMIM	610101
3D Structure	ModBase 3D Structure for Q9NTM9
Applications Tested/Suitable for anti-CUTC antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunohistochemistry-Frozen (IHC-F), Immunofluorescence (IF), Immunocytochemistry (ICC)
Related Product Information for anti-CUTC antibody	MBS9233929 is an antibody targeting CUTC. Also known as CUTC Polyclonal Antibody. Reactive in Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CUTC 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 CUTC. It may not necessarily be applicable to this product.

NCBI GI #	148596990
NCBI GeneID	51076
NCBI Accession #	NP_057044.2
UniProt Primary Accession #	Q9NTM9
UniProt Secondary Accession #	Q5TCZ8; Q9Y321
UniProt Related Accession #	Q9NTM9
GenBank Nucleotide #	NM_015960.2
NCBI Official Full Name	copper homeostasis protein cutC homolog
NCBI Official Synonym Full Names	cutC copper transporter
NCBI Official Symbol	CUTC
NCBI Official Synonym Symbols	CGI-32

UniProt Protein Name	Copper homeostasis protein cutC homolog
Protein Family	Choline trimethylamine-lyase
UniProt Gene Name	CUTC
UniProt Entry Name	CUTC_HUMAN
NCBI Protein Information	copper homeostasis protein cutC homolog; cutC copper transporter homolog
NCBI Summary for CUTC	Members of the CUT family of copper transporters are associated with copper homeostasis and are involved in the uptake, storage, delivery, and efflux of copper (Gupta et al., 1995 [PubMed 7635807]; Li et al., 2005 [PubMed 16182249]).[supplied by OMIM, Mar 2008]
UniProt Comments for CUTC	CUTC: a copper binding protein associated with copper homeostasis and transport. Widely expressed in human tissues. Its nuclear and cytoplasmic distribution suggests that it may be a nucleocytoplasmic copper ion shuttle protein. Protein type: Carrier Chromosomal Location of Human Ortholog: 10q24.2 Cellular Component: nucleoplasm; cytoplasm; nucleolus; nucleus Molecular Function: copper ion binding Biological Process: copper ion transport; copper ion homeostasis; protein tetramerization
Research Articles on CUTC	**1.** Results suggest that hCutC functions as an enzyme with Cu(I) as a cofactor rather than a copper transporter and the potential Cu(I)-binding site consists of the two Cys residues and other conserved residues in the vicinity.
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