SLC25A17 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC25A17, Polyclonal Antibody
Full Product Name	SLC25A17, NT (SLC25A17, PMP34, Peroxisomal membrane protein PMP34, 34kD peroxisomal membrane protein, Solute carrier family 25 member 17) (MaxLight 650)
Product Gene Name	anti-SLC25A17 antibody
Product Synonym Names	SLC25A17; PMP34; Peroxisomal membrane protein PMP34; 34kD peroxisomal membrane protein; Solute carrier family 25 member 17
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,567 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (41165636..41215403, complement). Location: 22q13.2
OMIM	606795
3D Structure	ModBase 3D Structure for O43808
Immunogen	SLC25A17 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23~53 amino acids from the N-terminal region of human SLC25A17.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-SLC25A17 antibody	Antibodies; Transport Proteins
Applications Tested/Suitable for anti-SLC25A17 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-SLC25A17 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SLC25A17 antibody	This protein encodes a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Studies suggest that this protein may regulate cytokine production, and thus play a key role in the control of the inflammatory response.

Product References and Citations for anti-SLC25A17 antibody	McGeachie, M., et.al., Circulation 120 (24), 2448-2454 (2009). Kelly, E., et.al., J. Biol. Chem. 284 (25), 16891-16897 (2009).
Other Notes	Small volumes of anti-SLC25A17 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 SLC25A17 purchase	MBS6348228 is an antibody targeting SLC25A17. Also known as SLC25A17, NT (SLC25A17, PMP34, Peroxisomal membrane protein PMP34, 34kD peroxisomal membrane protein, Solute carrier family 25 member 17) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC25A17. It may not necessarily be applicable to this product.

NCBI GI #	47678685
NCBI GeneID	10478
NCBI Accession #	CAG30463.1
UniProt Primary Accession #	O43808
UniProt Secondary Accession #	Q5TFL0; Q9UGW8; Q9UGY7; A8KA59
UniProt Related Accession #	O43808
NCBI Official Full Name	SLC25A17
NCBI Official Synonym Full Names	solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17
NCBI Official Symbol	SLC25A17
NCBI Official Synonym Symbols	PMP34
UniProt Protein Name	Peroxisomal membrane protein PMP34
UniProt Synonym Protein Names	34 kDa peroxisomal membrane protein; Solute carrier family 25 member 17
Protein Family	Peroxisomal membrane protein
UniProt Gene Name	SLC25A17
UniProt Synonym Gene Names	PMP34
UniProt Entry Name	PM34_HUMAN
NCBI Protein Information	peroxisomal membrane protein PMP34; solute carrier family 25 member 17
NCBI Summary for SLC25A17	This gene encodes a peroxisomal membrane protein that belongs to the family of mitochondrial solute carriers. It is expressed in the liver, and is likely involved in transport. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

UniProt Comments for SLC25A17	Function: Peroxisomal transporter for multiple cofactors like coenzyme A (CoA), flavin adenine dinucleotide (FAD), flavin mononucleotide (FMN) and nucleotide adenosine monophosphate (AMP), and to a lesser extend for nicotinamide adenine dinucleotide (NAD+), adenosine diphosphate (ADP) and adenosine 3',5'-diphosphate (PAP). May catalyze the transport of free CoA, FAD and NAD+ from the cytosol into the peroxisomal matrix by a counter-exchange mechanism. Inhibited by pyridoxal 5'-phosphate and bathophenanthroline in vitro. Ref.10 Ref.12 Subunit structure: Interacts (via N- and C-terminus peroxisomal targeting regions) with PEX19; the interaction occurs with the newly synthesized SLC25A17 in the cytosol. Ref.7 Ref.9 Ref.11 Subcellular location: Cytoplasm. Peroxisome membrane; Multi-pass membrane protein Ref.8 Ref.9 Ref.11. Tissue specificity: Ubiquitous. Expressed in liver. Ref.12 Domain: The N- and C-terminal portions are exposed to the cytoplasm. Lacks a typical peroxisomal sorting signal. A region between helical transmembrane domains (TM) 4 and 5 and TM1-TM3 or TM4-TM6 are necessary for the peroxisome-targeting activity. Sequence similarities: Belongs to the mitochondrial carrier (TC 2.A.29) family. [View classification]Contains 3 Solcar repeats. Caution: Was first identified as a peroxisomal ATP transporter (Ref.10). However, later experiments showed that it acts as a peroxisomal transporter for multiple cofactors (Ref.12).
Research Articles on SLC25A17	**1.** Compares and contrasts all the known human SLC25A* genes and includes functional information.
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