SEPP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SEPP1, Polyclonal Antibody
Full Product Name	SEPP1, ID (SEPP1, SELP, Selenoprotein P) (MaxLight 650)
Product Gene Name	anti-SEPP1 antibody
Product Synonym Names	SEPP1; SELP; Selenoprotein P
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 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	43,174 Da
3D Structure	ModBase 3D Structure for P49908
Immunogen	SEPP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 232-262 amino acids from the Central region of human SEPP1.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-SEPP1 antibody	Antibodies; Selenoprotein
Applications Tested/Suitable for anti-SEPP1 antibody	Western Blot (WB), FLISA
Application Notes for anti-SEPP1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SEPP1 antibody	This gene encodes a selenoprotein containing multiple selenocysteine (Sec) residues, which are 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), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This selenoprotein is an extracellular glycoprotein, and is unusual in that it contains 10 Sec residues per polypeptide. It is a heparin-binding protein that appears to be associated with endothelial cells, and has been implicated to function as an antioxidant in the extracellular space. Several transcript variants, encoding either the same or different isoform, have been found for this gene.
Product References and Citations for anti-SEPP1 antibody	Sun, W., et al. Br. J. Nutr. 104(9):1283-1287(2010). Roman, M., et al. Transl Res 156(4):242-250(2010). Meplan, C., et al. Carcinogenesis 31(6):1074-1079(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Takemoto, A.S., et al. Ethn Dis 20 (1 SUPPL 1), S1-S925 (2010).

Other Notes	Small volumes of anti-SEPP1 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 SEPP1 purchase	MBS6346116 is an antibody targeting SEPP1. Also known as SEPP1, ID (SEPP1, SELP, Selenoprotein P) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEPP1. It may not necessarily be applicable to this product.

NCBI GI #	148277018
NCBI GeneID	6414
NCBI Accession #	NP_001078955.1
NCBI Related Accession #	NP_005401.3
UniProt Primary Accession #	P49908
UniProt Secondary Accession #	Q6PD59; Q6PI43; Q6PI87; Q6PJF9
UniProt Related Accession #	P49908
GenBank Nucleotide #	NM_001085486.2
NCBI Official Full Name	selenoprotein P isoform 1
NCBI Official Synonym Full Names	selenoprotein P
NCBI Official Symbol	SELENOP
NCBI Official Synonym Symbols	SeP; SELP; SEPP; SEPP1
UniProt Protein Name	Selenoprotein P
Protein Family	Selenoprotein
UniProt Gene Name	SELENOP
UniProt Synonym Gene Names	SeP
NCBI Protein Information	selenoprotein P
NCBI Summary for SEPP1	This gene encodes a selenoprotein that is predominantly expressed in the liver and secreted into the plasma. This selenoprotein is unique in that it contains multiple selenocysteine (Sec) residues per polypeptide (10 in human), and accounts for most of the selenium in plasma. It has been implicated as an extracellular antioxidant, and in the transport of selenium to extra-hepatic tissues via apolipoprotein E receptor-2 (apoER2). Mice lacking this gene exhibit neurological dysfunction, suggesting its importance in normal brain function. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon, rather than as a stop signal. The mRNA for this selenoprotein contains two SECIS elements. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2017]
UniProt Comments for SEPP1	Might be responsible for some of the extracellular antioxidant defense properties of selenium or might be involved in the transport of selenium. May supply selenium to tissues such as brain and testis.
Research Articles on SEPP1	**1.** Results indicate a diversity of RNA elements conducting multiple occurrences of UGA redefinition to control the synthesis of full-length and truncated selenoprotein P (SELENOP) isoforms.
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