AMBP Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	AMBP, Blocking Peptide
Full Product Name	AMBP Antibody (N-term) Blocking peptide
Product Gene Name	AMBP blocking peptide
Product Synonym Gene Name	HCP; ITIL
Product Synonym Names	Protein AMBP; Alpha-1-microglobulin; Protein HC; Alpha-1 microglycoprotein; Complex-forming glycoprotein heterogeneous in charge; Inter-alpha-trypsin inhibitor light chain; ITI-LC; Bikunin; EDC1; HI-30; Uronic-acid-rich protein; Trypstatin; AMBP; HCP; ITIL
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of AMBP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	AMBP peptide (MBS9220175) is used for blocking the activity of AMBP antibody (MBS9210145)
Molecular Weight	38,999 Da
OMIM	176870
Cellular Location	Secreted.
Tissue Location	Expressed by the liver and secreted in plasma. Alpha-1-microglobulin occurs in many physiological fluids including plasma, urine, and cerebrospinal fluid. Inter-alpha- trypsin inhibitor is present in plasma and urine
Related Product Information for AMBP blocking peptide	Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization.
Other Notes	Small volumes of AMBP blocking peptide 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 AMBP purchase	MBS9220175 is a blocking peptide targeting AMBP. Also known as AMBP Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

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

NCBI GI #	122801
NCBI GeneID	259
NCBI Accession #	P02760.1
UniProt Primary Accession #	P02760
UniProt Secondary Accession #	P00977; P02759; P78491; Q2TU33; Q5TBD7; Q9UC58; Q9UDI8
UniProt Related Accession #	P02760
NCBI Official Full Name	Protein AMBP
NCBI Official Synonym Full Names	alpha-1-microglobulin/bikunin precursor

NCBI Official Symbol	AMBP
NCBI Official Synonym Symbols	A1M; HCP; ITI; UTI; EDC1; HI30; ITIL; IATIL; ITILC
UniProt Protein Name	Protein AMBP
UniProt Synonym Protein Names	Alpha-1-microglobulin; Protein HC
Protein Family	Protein
UniProt Gene Name	AMBP
UniProt Synonym Gene Names	HCP; ITIL; Protein HC; ITI-LC
UniProt Entry Name	AMBP_HUMAN
NCBI Protein Information	protein AMBP
NCBI Summary for AMBP	This gene encodes a complex glycoprotein secreted in plasma. The precursor is proteolytically processed into distinct functioning proteins: alpha-1-microglobulin, which belongs to the superfamily of lipocalin transport proteins and may play a role in the regulation of inflammatory processes, and bikunin, which is a urinary trypsin inhibitor belonging to the superfamily of Kunitz-type protease inhibitors and plays an important role in many physiological and pathological processes. This gene is located on chromosome 9 in a cluster of lipocalin genes. [provided by RefSeq, Jul 2008]
UniProt Comments for AMBP	AMBP: Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 9q32-q33 Cellular Component: extracellular region; extracellular space; plasma membrane Molecular Function: heme binding; IgA binding; protein binding; protein homodimerization activity; serine-type endopeptidase inhibitor activity Biological Process: negative regulation of JNK cascade; receptor-mediated endocytosis
Research Articles on AMBP	**1.** Data indicate that two heme groups can be bound simultaneously at separate sites in the antioxidant alpha1-microglobulin.
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