

Rabbit AMBP Polyclonal Antibody | anti-AMBP antibody

AMBP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326421	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AMBP; Polyclonal Antibody; AMBP Antibody; A1M; Alpha 1 microglobulin/bikunin precursor; Alpha 1 microglycoprotein; Alpha-1 microglycoprotein; Alpha-1-microglobulin; AMBP_HUMAN; Bikunin; Complex-forming glycoprotein heterogeneous in charge; EDC1; Growth inhibiting protein 19; HCP; HI-30; HI30; IATIL; ITI; ITI-LC; ITIL; Microglobulin (alpha 1); Protein AMBP; Protein HC; Trypstatin; Uristatin; Uronic-acid-rich protein; UTI; anti-AMBP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	AMBP antibody detects endogenous levels of total AMBP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	352
Applicable Applications for anti-AMBP antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human AMBP
Subcellular Location	Secreted.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (90%), Zebrafish (80%), Bovine (90%), Horse (90%), Sheep (80%), Rabbit (100%), Dog (100%), Chicken (90%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA326421 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of HepG2 cell lysate, using AMBP Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-AMBP antibody	Description: 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. Function: Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization. Subunit Structure: I-alpha-I plasma protease inhibitors are assembled from one or two heavy chains (H1, H2 or H3) and one light chain, bikunin. Inter-alpha-inhibitor (I-alpha-I) is composed of H1, H2 and bikunin, inter-alpha-like inhibitor (I-alpha-LI) of H2 and bikunin, and pre-alpha-inhibitor (P-alpha-I) of H3 and bikunin. Alpha-1-microglobulin occurs as a monomer and also in complexes with IgA and albumin. Alpha-1-microglobulin interacts with FN1. Trypstatin is a monomer and also occurs as a complex with trypase in mast cells (By similarity). Alpha-1-microglobulin and bikunin interact (via SH3 domain) with HEV ORF3 protein. Post-translational Modifications: The precursor is proteolytically processed into separately functioning proteins.3-hydroxykynurenine, an oxidized tryptophan metabolite that is common in biological fluids, reacts with Cys-53, Lys-111, Lys-137, and Lys-149 to form heterogeneous polycyclic chromophores including hydroxanthommatin. The reaction by alpha-1-microglobulin is autocatalytic; the human protein forms chromophore even when expressed in insect and bacterial cells. The chromophore can react with accessible cysteines forming non-reducible thioether cross-links with other molecules of alpha-1-microglobulin or with other proteins such as Ig alpha-1 chain C region 'Cys-352'.Heavy chains are interlinked with bikunin via a chondroitin 4-sulfate bridge to the their C-terminal aspartate. N-and O-glycosylated. N-glycan heterogeneity at Asn-115: Hex5HexNAc4 (major), Hex6HexNAc5 (minor) and dHex1Hex6HexNAc5 (minor). N-glycan at Asn-250: Hex5HexNAc4. O-linkage of the glycosaminoglycan, chondroitin sulfate, at Ser-215 allows cross-linking between the three polypeptide chains. Similarity: In the N-terminal section; belongs to the calycin superfamily. Lipocalin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502067
NCBI GeneID	259
NCBI Accession #	NP_001624.1
NCBI GenBank Nucleotide #	NM_001633.3
UniProt Accession #	P02760; P00977; P02759; P78491; Q2TU33; Q5TBD7; Q9UC58; Q9UDI8
Molecular Weight	Observed: 39 kDa Predicted: 39 kDa
NCBI Official Full Name	protein AMBP preproprotein
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
NCBI Protein Information	protein AMBP
UniProt Protein Name	Protein AMBP

UniProt Gene Name	AMBP
UniProt Synonym Gene Names	HCP; ITIL; Protein HC; ITI-LC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ambp-antibody-immunohistochemistry-western-blot-elisa/326421>