

Ambp Antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # Al14360

Specification

Ambp Antibody - C-terminal region - Product Information

Application WB
Primary Accession Q64240

Other Accession NM 012901, NP 037033

Reactivity Human, Mouse, Rat, Rabbit, Goat, Sheep,

Horse, Bovine, Guinea Pig, Dog

Predicted Human, Mouse, Rat, Rabbit, Pig, Goat,

Sheep, Horse, Bovine, Guinea Pig, Dog

Host Rabbit
Clonality Polyclonal
Calculated MW 38kDa KDa

Ambp Antibody - C-terminal region - Additional Information

Gene ID 25377

Other Names

Protein AMBP, Alpha-1-microglobulin, Inter-alpha-trypsin inhibitor light chain, ITI-LC, Bikunin, HI-30, Trypstatin, Ambp, Itil

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Ambp antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Ambp Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Ambp Antibody - C-terminal region - Protein Information

Name Ambp

Synonyms Itil

Function

[Alpha-1-microglobulin]: Antioxidant and tissue repair protein with reductase, heme-binding and radical-scavenging activities. Removes and protects against harmful oxidants and repairs macromolecules in intravascular and extravascular spaces and in intracellular compartments. Intravascularly, plays a regulatory role in red cell homeostasis by preventing heme- and reactive oxygen species- induced cell damage. Binds and degrades free heme to protect fetal and adult red



blood cells from hemolysis. Reduces extracellular methemoglobin, a Fe3+ (ferric) form of hemoglobin that cannot bind oxygen, back to the Fe2+ (ferrous) form deoxyhemoglobin, which has oxygen-carrying potential. Upon acute inflammation, inhibits oxidation of low-density lipoprotein particles by MPO and limits vascular damage. Extravascularly, protects from oxidation products formed on extracellular matrix structures and cell membranes. Catalyzes the reduction of carbonyl groups on oxidized collagen fibers and preserves cellular and extracellular matrix ultrastructures. Importantly, counteracts the oxidative damage at blood-placenta interface, preventing leakage of free fetal hemoglobin into the maternal circulation. Intracellularly, has a role in maintaining mitochondrial redox homeostasis. Bound to complex I of the respiratory chain of mitochondria, may scavenge free radicals and preserve mitochondrial ATP synthesis. Protects renal tubule epithelial cells from heme-induced oxidative damage to mitochondria. Reduces cytochrome c from Fe3+ (ferric) to the Fe2+ (ferrous) state through formation of superoxide anion radicals in the presence of ascorbate or NADH/NADPH electron donor cofactors, ascorbate being the preferred cofactor (By similarity). Has a chaperone role in facilitating the correct folding of bikunin in the endoplasmic reticulum compartment (By similarity).

Cellular Location

[Alpha-1-microglobulin]: Secreted {ECO:0000250|UniProtKB:P02760}. Endoplasmic reticulum {ECO:0000250|UniProtKB:P02760}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:P02760}. Cell membrane {ECO:0000250|UniProtKB:P02760}; Peripheral membrane protein {ECO:0000250|UniProtKB:P02760}. Nucleus membrane {ECO:0000250|UniProtKB:P02760}; Peripheral membrane protein {ECO:0000250|UniProtKB:P02760}. Mitochondrion inner membrane {ECO:0000250|UniProtKB:P02760}. Peripheral membrane protein {ECO:0000250|UniProtKB:P02760}. Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P02760}. Note=The cellular uptake occurs via a non-endocytotic pathway and allows for localization to various membrane structures. A specific binding to plasma membrane suggests the presence of a cell receptor, yet to be identified Directly binds collagen fibers type I. {ECO:0000250|UniProtKB:P02760}

Tissue Location

Expressed by the liver and secreted in plasma.

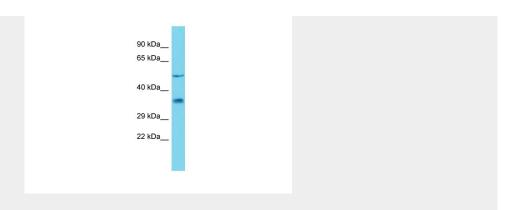
Ambp Antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Ambp Antibody - C-terminal region - Images





Host: Rabbit Target Name: Ambp

Sample Tissue: Rat Pancreas lysates Antibody Dilution: 0.125µg/ml

Ambp Antibody - C-terminal region - References

Lindqvist A.,et al.Biochim. Biophys. Acta 1130:63-67(1992). Kastern W.,et al.J. Biol. Chem. 261:15070-15074(1986). Kido H.,et al.J. Biol. Chem. 263:18104-18107(1988). Falkenberg C.,et al.Biochem. J. 301:745-751(1994). Itoh H.,et al.J. Biol. Chem. 269:3818-3822(1994).