



Datasheet for ABIN5693314

anti-AMBP antibody (AA 206-352)

1 Image



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Overview

Quantity: 100 µg

Target: AMBP

Binding Specificity: AA 206-352

Reactivity: Human, Rat, Mouse

Host: Rabbit

Clonality: Polyclonal

Conjugate: This AMBP antibody is un-conjugated

Application: Western Blotting (WB), ELISA

Product Details

Brand: Picoband™

Immunogen: E. coli-derived human Alpha 1 microglobulin recombinant protein (Position: A206-N352).

Cross-Reactivity (Details): No cross reactivity with other proteins.

Characteristics: Rabbit IgG polyclonal antibody for Alpha 1 microglobulin detection. Tested with WB, Direct ELISA in Human,Mouse,Rat.

Target Details

Target: AMBP

Alternative Name: AMBP ([AMBP Products](#))

Background: Synonyms: Protein AMBP, Alpha-1-microglobulin, Protein HC, Alpha-1 microglycoprotein,

Target Details

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

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.

Background: Protein AMBP is a protein that in humans is encoded by the AMBP gene. 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.

UniProt:

[P02760](#)

Application Details

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.
Application Details: Western blot, 0.1-0.5 µg/mL
Direct ELISA, 0.1-0.5 µg/mL

Restrictions:

For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

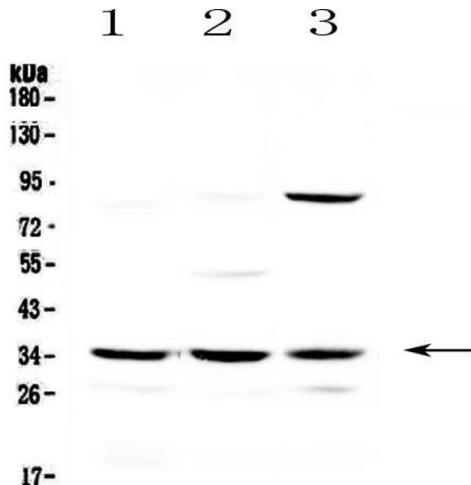
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.

It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot analysis of Alpha 1 microglobulin using anti-Alpha 1 microglobulin antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: mouse liver tissue lysates, Lane 3: mouse NIH3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Alpha 1 microglobulin antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Alpha 1 microglobulin at approximately 34KD. The expected band size for Alpha 1 microglobulin is at 39KD.