product information

**Background**

Alpha-1-microglobulin is a 27-kDa glycoprotein with immunosuppressive properties. A gene AMBP in the lipocalin cluster encodes alpha-1-microglobulin together with a Kunitz-type proteinase inhibitor, bikunin. The gene is translated into the alpha-1-microglobulin-bikunin precursor, which is subsequently cleaved and the two proteins are secreted to the blood separately. Alpha-1-microglobulin is found in blood and in connective tissue in most organs. It is most abundant at interfaces between the cells of the body and the environment, such as in lungs, intestine, kidneys and placenta. Alpha 1-microglobulin is an immunomodulatory protein with a broad spectrum of possible clinical applications and seems a promising marker for evaluation of tubular function.

**Immunogen**

human and rat alpha-1-microglobulin, native, full length, purified from urine, UniProt: P02760 cleavage product no. PRO_0000017886

**Host**

Mouse

**Clonality**

Monoclonal

**Subclass/isotype**

IgG2a;

**Format**

Lyophilized

**Quantity**

50 µg

**Reconstitution**

For reconstitution add 50 µl of sterile water.

**Storage**

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

**Tested applications**

ImmunoAffinity chromatography (IAC), ELISA (ELISA), Immunohistochemistry (IHC), immunoflourescence (IF), Immunoprecipitation (IP), Radioimmunoassay (RIA), Western blot (WB)

**Related products**

AS01 014 | anti-rat alpha-1 microglobulin

**Additional information**

Antibody is purified and contains 0.5 mg/ml of mouse albumin in 150 mM NaCl, 20 mM Tris-HCl, pH 8 and 0.02% sodium azide; This Antibody is also reacting with the AMBP precursor.

**Application information**

**Recommended dilution**

0.2-2 mg/L (ELISA), 5 µg/ml (IP), 20 ng/ml (RIA), 1 µg/ml (IHC), 10 mg/1ml of gel (ACH), 5 µg/ml (IF), 1 : 2000 (WB)

**Expected | apparent MW**

27 kDa

**Confirmed reactivity**

Human, guinea pig, Rabbit, Rat

**Not reactive in**

No confirmed exceptions from predicted reactivity are currently known.

**Additional information**

For usage on rabbit and guinea pig the antibody has to be applied in high concentrations. The antibody has been used on frozen sections only, not paraffin. Suggested antigen retrieval is 5 min in microwave oven in citrate buffer, pH 6.

**Selected references**