



[Go to Product page](#)

Datasheet for ABIN103762

anti-alpha 2 Macroglobulin antibody

3 Images

1 Publication

Overview

Quantity:	100 µg
Target:	alpha 2 Macroglobulin (A2M)
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This alpha 2 Macroglobulin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	a2-Macroglobulin [Human Plasma] Immunogen type: Native
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	alpha 2 Macroglobulin (A2M)
Alternative Name:	Alpha-2-Macroglobulin (A2M Products)
Background:	Alpha-2-Macroglobulin detects Macroglobulin. Alpha-2-MACROGLOBULIN is a large plasma protein found in the blood. It is produced by the liver, and is a major component of the alpha-2 band in protein electrophoresis. Alpha 2-Macroglobulin is the largest major nonimmunoglobulin protein in plasma. The alpha 2-macroglobulin molecule is synthesized mainly in liver, but also

Target Details

locally by macrophages, fibroblasts, and adrenocortical cells. Alpha 2 macroglobulin acts as an antiprotease and is able to inactivate an enormous variety of proteinases. It functions as an inhibitor of fibrinolysis by inhibiting plasmin and kallikrein. It functions as an inhibitor of coagulation by inhibiting thrombin. Alpha 2-macroglobulin may act as a carrier protein because it also binds to numerous growth factors and cytokines, such as platelet-derived growth factor, basic fibroblast growth factor, TGF- β , insulin, and IL-1 β . No specific deficiency with associated disease has been recognized, and no disease state is attributed to low concentrations of Alpha 2 macroglobulin. The concentration of alpha 2 macroglobulin rises 10-fold or more in the nephrotic syndrome when other lower molecular weight proteins are lost in the urine. The loss of alpha 2 macroglobulin into urine is prevented by its large size. The net result is that alpha 2 macroglobulin reaches serum levels equal to or greater than those of albumin in the nephrotic syndrome, which has the effect of maintaining oncotic pressure. Antialpha-2-macroglobulin is ideal for investigators involved in serum component protein research.

Synonyms: A2M antibody, Alpha 2 M antibody, Alpha 2M antibody, CPAMD5 antibody, DKFZp779B086 antibody, FWP007 antibody, S863 7 antibody

Gene ID: 2

UniProt: [P01023](#)

Pathways: [Lipid Metabolism](#)

Application Details

Application Notes: Anti-alpha-2-macroglobulin antibody is suitable for ELISA, Western Blot and Immunohistochemistry applications. Anti-alpha-2-MACROGLOBULIN antibody should be optimized by the end user for the specific reactive conditions.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Restore with deionized water (or equivalent)

Concentration: 10.0 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

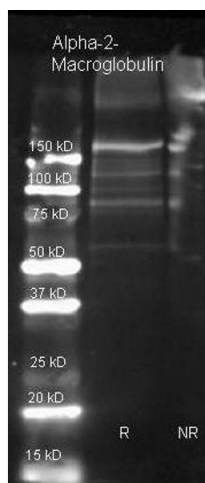
Storage: 4 °C

Publications

Product cited in: Dolezalová, Vojtšek, Kovarik: "Epitope analysis of the human p53 tumour suppressor protein." in: **Folia biologica**, Vol. 43, Issue 1, pp. 49-51, (1997) ([PubMed](#)).

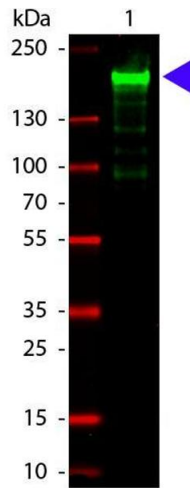
Bártková, Bártek, Lukás, Vojtšek, Stasková, Rejthar, Kovarik, Midgley, Lane: "p53 protein alterations in human testicular cancer including pre-invasive intratubular germ-cell neoplasia." in: **International journal of cancer. Journal international du cancer**, Vol. 49, Issue 2, pp. 196-202, (1991) ([PubMed](#)).

Images



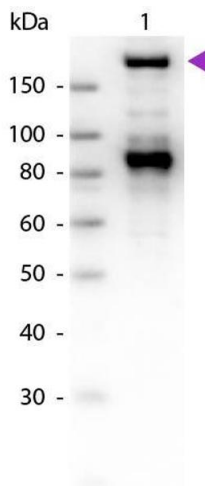
Western Blotting

Image 1. Goat anti Alpha-2-Macroglobulin antibody was used to detect Alpha-2-Macroglobulin under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified target proteins contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in ABIN925618). Detection shown was using Dylight 649 conjugated Donkey anti goat (605-743-125 lot 20834 1:10K in TBS/ABIN925618) 1 hr RT. Images were collected using the BioRad VersaDoc System.



Fluorescence Western

Image 2.



Western Blotting

Image 3. Western Blot of Goat Anti-Alpha-2-Macroglobulin antibody. Lane 1: Alpha-2-Macroglobulin. Lane 2: None. Load: 50 ng per lane. Primary antibody: Alpha-2-Macroglobulin antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase goat secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 163 kDa, 163 kDa for Alpha-2-Macroglobulin. Other band(s): Alpha-2-Macroglobulin splice variants and isoforms.