



## Product Specification Sheet

### Alpha-Macroglobulin, Mouse Serum, Purified protein

□ Cat. # AMGL15-N-25

Mouse alpha Macroglobulin protein, pure

**SIZE:** 25 ug

$\alpha$ -Macroglobulin is a serum proteinase inhibitor that consists of two major (Mr 163,000 and 35,000) and one minor (Mr 185,000) polypeptide chains. It is a negative acute phase reactant, the levels of which decrease in mouse serum or plasma as a result of inflammation. It has also been demonstrated that mouse  $\alpha$ -macroglobulin levels increase significantly with age, after gonadectomy and during pregnancy. Mouse  $\alpha$ -macroglobulin (M-AMG) is believed to be a functional homologue of human  $\alpha$ 2-macroglobulin (h- $\alpha$ 2M).

$\alpha$ 2-Macroglobulin ( $\alpha$ 2M) is a major proteinase inhibitor in humans and other animals. The concentration of this protein in serum varies from 2 to 4 mg/ml, depending on age, sex and physical state of the individual.  $\alpha$ 2M has also been found in semen, colostrum, lymph and other extravascular fluids. The absolute physiological function of  $\alpha$ 2M is still unknown, but as yet no human has been reported to lack this protein. It has been shown that lowered or elevated concentrations of  $\alpha$ 2M are associated with certain disease states in humans.

#### **Source of Antigen**

#### **Cat # AMGL15-N-25**

Mouse  $\alpha$ -macroglobulin was purified using a combination of affinity, gel filtration and ion-exchange chromatography steps.

It is >95% pure by SDS-PAGE and shows major bands of ~163 and 35 kDa and a minor 185 kDa band on reducing gels. It is supplied in 150 mM NaCl, 10 mM sodium phosphate, 0.05% sodium azide (pH 7.2) (see lot sp concn on the vial). Store at -20°C or below, avoid repeated freeze and thaw.

**General References:** Hudson NW (1987) Biochem. J. (1987) 248, 837-845; Anderson GR (1995) JBC 270, 25133-41; De Boer JP (1993) Infect. Immu. 61, 5035-5045; Blacker Dr (1998) Nat. Genet. 19, 357-360.

*\*This product is for In vitro research use only.*

#### **Related material available from ADI**

Catalog#	Description
600-720-A2M	Mouse alpha 2-Macroglobulin (A2M) ELISA kit
610-420-A2M	Rat alpha 2-Macroglobulin (A2M) ELISA kit 96 tests, Quantitative
A2MG11-A	Goat Anti-human Alpha 2-Macroglobulin (A2M) protein IgG, unlabeled
A2MG11-BT	Goat Anti-human Alpha 2-Macroglobulin (A2M) protein IgG, Biotin conjugate
A2MG11-C	Alpha 2-Macroglobulin (A2M), Human protein control for WB
A2MG11-HRP	Goat Anti-human Alpha 2-Macroglobulin (A2M) protein IgG, HRP conjugate
A2MG12-A	Rabbit Anti-Rat Alpha 2 (A2M) Macroglobulin IgG, aff pure
A2MG12-C	Rat Alpha 2-Macroglobulin (A2M) purified protein control for WB
A2MG13-A	Anti-Human Alpha 2 Macroglobulin (A2M) IgG/Y
A2MG15-N	Alpha 2-Macroglobulin (A2M), Human Plasma
A2MG16-N-25	Rat Alpha 2-Macroglobulin (A2M) purified protein
AMGL15-N-25	Mouse alpha Macroglobulin protein, pure

AMGL15-N-25-Ms-alpha-macroglobulin 170309SV