ALPHA DIAGNOSTIC INTERNATIONAL

Life Technologies™ Your Molecular & Cell Technology Partner

**Product Specification Sheet**

## Mouse Alpha 1 acid glycoprotein (A1AG) Protein

**Cat.** # A1AG18-N-25 Mouse Alpha 1 acid glycoprotein (A1AG) Protein, pure **SIZE**: 25 ug

A1AG serum protein, also called orosomucoid, is a monomer about 210 amino acid residues long; the amino acid sequence has been determined through 192 amino acids. A1AG is found in Cat plasma in concentrations of 55-140 mg per 100 ml. It is a classical standard glycoprotein (40 Kda, ~40% carbohydrates) for studies on the structure of the oligosaccharide units. Its biological significance is unknown, although it can bind progesterone 15 times as strongly as albumin. Sialic-acid-deficient alpha-1-AG has an affinity for vitamin B-12. Clinically, alpha 1 acid glycoprotein is an acute-phase reactant that together with haptoglobin is an indicator of acute inflammation. The alpha 1 acid glycoprotein:haptolobin ratio is useful in studies of bone marrow disorders, hemolytic processes and metastases.

It is a positive acute phase reactant, the levels of which increase significantly in cats in response to inflammation, tissue injury and disease. A1AGP is purified using a combination of acid extraction, precipitation, gel filtration and affinity chromatography steps.

OROSOMUCOID 1; ORM1
Alternative titles; symbols
ORM
GLYCOPROTEIN, ALPHA-1-ACID, OF SERUM
ALPHA-1-ACID GLYCOPROTEIN
ALPHA-1-AGP; AGP1
Gene map locus 9q34.1-q34.3

### Source of Antigen and Antibodies

**A1AG** protein (**cat# A1AG18-N-25**) was purified (>95%, ~50 Kda) from Mouse plasma. Purified A1AG protein is formulated in 150mM Tris, pH 7.4, and 0.05% azide (see lot specific protein concn on the vial). Lyophilized protein should be dissolved in PBS at a desired protein concentration. Store liquid or lyophilized protein at –20oC in suitable size aliquots. Do not freeze and thaw.

**Storage**

**Short-term**: unopened, undiluted vials for less than a week at 4oC.

**Long-term**: at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability**: 6-12 months at –20oC or below.

**Shipping**: 4oC for solutions and room temp for lyophilized items.

**General References**: Dente L (1985) Nucl. Acid. Res. 13, 3941; Dente L (1987) EMBO J. 6, 2289; Board PG (1986) Gene 44, 127-131; Tokita K (1963) Nature, 200,266

*This product is for in vitro research use only.

### Some New Antibodies from ADI…

| Catalog# | ProdDescription |
|---|---|
| A1AG11-A | Anti-Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, unlabeled |
| A1AG11-BT | Anti-Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, Biotin conjugate |
| A1AG11-C | Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein control for WB |
| A1AG11-HRP | Anti-Cat Alpha 1-Acid Glycoprotein (A1-AGP) protein IgG, HRP conjugate |
| A1AG19-N | Alpha 1 Acid Glycoprotein (A1-AGP), Cat Plasma |
| A1AG16-N-25 | Alpha-1-Acid Glycoprotein Protein, Cat, purified |
| A1AG17-A | Anti-Dog Alpha-1-acid Glycoprotein IgG, aff pure |
| A1AG17-C | Alpha-1-Acid Glycoprotein Protein, Dog, control for western |
| A1AG17-N-25 | Alpha-1-Acid Glycoprotein Protein, Dog, purified |
| A1AG18-A | Anti-Mouse a-1-Acid Glycoprotein IgG, aff pure |
| A1AG18-C | Alpha-1-Acid Glycoprotein Protein, Mouse, control for western |
| A1AG18-N-25 | Alpha-1-Acid Glycoprotein Protein, Mouse, Purified |
| A1AG19-A | Anti-Rat a-1-Acid Glycoprotein IgG, aff pure |
| A1AG19-C | Alpha-1-Acid Glycoprotein Protein, Rat, purified control for western |
| A1AG19-N-25 | Alpha-1-Acid Glycoprotein Protein, Rat, purified |

**ELISA kits**

**610-410-MLC Rat a-1-Acid Glycoprotein ELISA kit**

A1AG18-N-25 110107A

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