

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse $\alpha$ 1-Acid Glycoprotein in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with human $\alpha$ 1-Acid Glycoprotein is observed.                                                                                         |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse plasma-derived $\alpha$ 1-Acid Glycoprotein<br>Accession # P02763                                                                                                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

$\alpha$ 1-Acid Glycoprotein (AGP; also OMD/Orosomucoid) is a 40-46 kDa member of the immunocalin subfamily, lipocalin family of molecules. In mouse, circulating AGP is principally the product of hepatocytes that originates from multiple related genes (AGP-1, -2 & -3 in *Mus musculus*). Circulating AGP-1 and -2 are both 189 amino acids (aa) in length, the principal sources of protein, and show 83% aa identity; AGP-3 contributes little to the AGP pool. In mouse blood, AGP is normally 200-400  $\mu$ g/mL. In response to inflammatory mediators (IL-6; IL-1), its concentration will rise 2 to 10 fold. More importantly, a complex glycosylation pattern will also change, transitioning from modestly branched to highly branched oligosaccharides. This change is reflected in its bioactivity, which has been shown to be a function of carbohydrate branching. AGP is generally considered to be a suppressor of inflammation. Rat and human AGP share only 70% and 47% aa identity with mouse AGP, respectively.

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