Product Information

MONOCLONAL ANTI-α1-ACID GLYCOPROTEIN
Clone AGP-47
Mouse Ascites Fluid

Product Number A 5566

Product Description
Monoclonal Anti-α1-Acid Glycoprotein (mouse IgG1 isotype) is derived from the AGP-47 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice. Purified human α1-acid glycoprotein was used as the immunogen. The isotype is determined using the Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunooassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2).

α1-Acid Glycoprotein (AGP, orosomucoid)1,2 is an acute-phase plasma protein that, together with haptoglobin and C-reactive protein, indicates inflammation. In human plasma, AGP (44 kDa) is found at levels of 0.5-1.4 mg/ml and pronounced changes of these levels have been observed in various pathological conditions.

Increased concentrations of AGP are known to be associated with various inflammatory diseases, trauma, malignancies, myocardial infarction, rheumatoid arthritis, after major surgery, and in cases of chronic pain. Basic drugs may be extensively bound to AGP and increases in this protein significantly affect their pharmacokinetic parameters owing to a decrease in the concentration of unbound drug in serum.2 Many immunological methods which make use of polyclonal or monoclonal antibodies have been described for determination and identification of AGP in plasma.

Reagents
The product is provided as ascites fluid with 0.1% sodium azide as a preservative.

Precautions and Disclaimer
Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability
For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in “frost-free” freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile
Monoclonal Anti-Human α1-Acid Glycoprotein (AGP) recognizes an epitope located on the 44 kDa subunit of denatured and reduced AGP in immunoblotting. It does not cross-react with human serum amyloid P component, human haptoglobin, human C-reactive protein, or human IgG. Weak cross-reactivity is observed with baboon AGP, but not with AGP from bovine and dog. The product reacts with AGP (native or denatured and reduced) in ELISA, dot blot and immunoblotting.

The working dilution is 1:10,000 by indirect immunoblotting using human plasma.

In order to obtain best results in different techniques or preparations, it is recommended that each individual user determine their optimal working dilutions by titration assay.

References