

## Product Information

### **Monoclonal Anti-Goat/Sheep IgG**

#### **Clone GT-34**

antibody produced in mouse, ascites fluid

Product Number **G2904**

#### **Product Description**

Monoclonal Anti-Goat/Sheep IgG (mouse IgG1 isotype) is derived from the GT-34 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from mice immunized with purified goat IgG. The isotype is determined by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Catalog Number ISO2).

Monoclonal Anti-Goat/Sheep IgG may be used for the localization of goat and sheep IgG using various immunochemical assays such as ELISA, immunoblot, immunoprecipitation, and immunoelectrophoresis.

Monoclonal Anti-Goat/Sheep IgG recognizes an epitope located on the heavy chain of goat IgG1 and IgG2. The antibody shows strong cross-reactivity with sheep IgG and weak cross-reactivity with bovine IgG. No cross-reactivity is observed with IgG derived from human, guinea pig, rat, horse, dog, chicken, pig, mouse, rabbit, or cat. Despite its monoclonal nature, the product may be used for immunoprecipitation techniques such as Ouchterlony double diffusion, immunoelectrophoresis and immunoblotting.

Goat and sheep antibodies against many antigens are widely used as primary antibodies in various assay techniques used in research and clinical practices. Polyclonal second antibodies to goat and sheep antibodies that are used to detect these antibodies may suffer from a lack of unique specificity to goat or sheep immunoglobulins. In many instances, such antibodies will also recognize other immunoglobulins that appear in the tested preparation. This obstacle is often observed when the tested preparation is of human origin. As a result, an extensive adsorbing stage has to be integrated in the manufacturing process of polyclonal reagents. The use of a monoclonal antibody to goat or sheep IgG which is devoid of any binding capacity to human and many other species can therefore serve as an essential tool in many applications.

#### **Reagent**

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

#### **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet 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, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

#### **Product Profile**

A minimum working dilution of 1:10,000 – 1:20,000 was determined by ELISA using plates coated with purified goat and sheep IgG at 5 µg/ml.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

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