

Product Information

Anti-Goat/sheep IgG antibody, Mouse monoclonal Clone GT-34, purified from hybridoma cell culture

Product Number **SAB4200804**

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 a mouse immunized with purified goat immunoglobulins (IgGs). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Product Number ISO2). The antibody is purified from culture supernatant of hybridoma cells.

Monoclonal Anti-Goat/sheep 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, monkey, guinea pig, rat, horse, fish, donkey, dog, chicken, pig, mouse, rabbit, or cat origin. The antibody is recommended to use in various immunological techniques, including ELISA,¹ immunoblotting,² immunofluorescence,³ and immunohistochemistry.⁴

Goat and sheep antibodies are widely used as primary antibodies against many antigens in various assay techniques in research and clinical practices. Polyclonal second antibodies to goat and sheep may suffer from a lack of unique specificity to goat or sheep IgGs, and may cross react with other IgGs from human, mouse, rat, or rabbit origin. As a result, an extensive adsorbing stage has to be integrated in the manufacturing process of most polyclonal antibodies. The use of a monoclonal antibody specific 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 and a useful control in many tests and applications.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~1.0 mg/mL

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, freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Indirect ELISA: a working concentration of 0.25-0.5 µg/mL is recommended using 5 µg/mL of Goat IgG for coating.

Note: In order to obtain best results in different techniques and preparations, it is recommended to determine optimal working concentration by titration test.

References

1. Sallé, G. et al., *Int. J. Parasitol.*, **48**, 395-402 (2018).
2. Philippin-Lauridant, G. et al., *Int. J. Oncol.*, **42**, 1367-75 (2013).
3. Chang, F.H. et al., *New Zealand Journal of Marine and Freshwater Research*, **33**, 533-543 (1999).
4. Bobrich, M. et al., *Int. J. Obes. (Lond.)*, **35**, 1385-94 (2011).

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