Data Sheet
Goat Anti-Mouse Peroxidase-Conjugated Immunoglobulin

goat polyclonal antibody NCL-GAMP

Intended Use

FOR RESEARCH USE ONLY.

Specificity

The antibody reacts with all mouse IgG subclasses, mouse IgA and mouse IgM. Crossreaction with human immunoglobulins and fetal calf serum is very low as determined by ELISA, less than 0.5%. The crossreaction with immunoglobulins of rabbit and swine is less than 0.5%. The crossreaction with immunoglobulins of guinea pig is approximately 10% and with rat immunoglobulins it is approximately 30%.

Immunogen

Immunoglobulins, mainly IgG, isolated from mouse serum.

Preparation

Purified goat polyclonal conjugated to horseradish peroxidase and prepared in 1ml of 0.05M Tris/HCl (pH7.2) containing 15mM sodium azide. The antibody used for conjugation has been solid-phase absorbed to remove antibodies crossreacting with human immunoglobulins and foetal calf serum. The absorbed antibody has been further purified by affinity chromatography using agarose beads coupled with mouse immunoglobulins. The affinity-isolated antibody has then been conjugated with horseradish peroxidase of very high specific enzymatic activity. The coupling reaction is a modification of the two-step glutaraldehyde method of Avrameas and Ternynck (1971). The reaction is gentle, efficient, highly reproducible and gives conjugate molecules predominantly of 200 to 240kD.

Effective on frozen tissue

Yes

Effective on paraffin wax embedded tissue

Yes

Recommendations on use

Immunohistochemistry:
Typical working dilution 1:40.
30 minutes secondary antibody incubation at 25^{o}C.

Storage and stability

Store the conjugated antibody at 4^{o}C. The conjugate should not be frozen and should be protected from prolonged exposure to light. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label.

General Overview

NCL-GAMP is a horseradish peroxidase-conjugated antibody ideally suited for use as a secondary detection product for the localisation of mouse immunoglobulins in immunohistochemistry.

General References

Avrameas S and Ternynck. Immunohistochemistry. **8**: 1175-1179 (1971).