

Datasheet for 610-101-040**Mouse IgG1 Antibody Pre-adsorbed****Overview**

Description:	Goat Anti-Mouse IgG1 (Gamma 1 chain) Antibody (Min X to Bv Hu & Rb Serum Proteins) - 610-101-040
Item No.:	610-101-040
Size:	1 mg
Applications:	Dot Blot, ELISA
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	Anti-Mouse IgG1 Antibody generated in goat detects reactivity to Mouse IgG1 (Gamma 1 chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. IgG1 chain constitutes 66% of the IgG subclass and has a high affinity for binding to the Fc receptor of phagocytic cells. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
Synonyms:	Goat anti-mouse IgG1 antibody, goat anti-mouse IgG1 (gamma 1) antibody
Host Species:	Goat
Specificity:	IgG1
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Mouse
Immunogen Type:	Native Protein
Immunogen:	Mouse IgG1 heavy chain

Purity/Specificity: Anti-Mouse IgG1 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG1 coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse Serum, Mouse IgG and Mouse IgG1. No reaction was observed against Bovine, Human, and Rabbit Serum Proteins. Specificity was confirmed by ELISA for human and rabbit. For IgG2a, IgG2b and IgG3 reactivity was less than 5% against target (IgG1, IgG). Cross-reactivity against Bovine is assessed only by IEP.

Relevant Links:

- [SDS](#)

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Anti-Mouse IgG1 secondary antibody has been tested by ELISA and dot blot and is suitable for ELISA, Immunohistochemistry western blotting as well as other anti IgG1 antibody based assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:40,000 - 1:200,000
IHC:	1:2,000 - 1:10,000
WB:	1:4,000 - 1:20,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.20 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

References

- Seifert L et al. The classical pathway triggers pathogenic complement activation in membranous nephropathy. *Nat Commun.* (2023)

Disclaimer

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