

Datasheet for ABIN101785

Rabbit anti-Mouse IgG (Heavy & Light Chain) Antibody - Preadsorbed



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Overview

Quantity:	2 mg
Target:	IgG
Binding Specificity:	Heavy & Light Chain
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB), Cleavage Under Targets and Release Using Nuclease (CUT&RUN), Cleavage Under Targets and Tagmentation (CUT&Tag)

Product Details

Immunogen:	Immunogen: Anti-Mouse IgG was produced by repeated immunization with mouse IgG whole molecule in rabbit Immunogen Type: Native Protein
Isotype:	IgG
Specificity:	IgG (H&L)
Cross-Reactivity:	Mouse (Murine)
Characteristics:	Anti-Mouse antibody generated in rabbit detects specifically mouse IgG (H&L). This secondary antibody anti-Mouse is ideal for investigators who routinely perform titration assays, western-blot, immunoprecipitation and more generally immunoassays. Concentration Definition: by UV absorbance at 280 nm
Purification:	Preadsorption: Solid phase absorption

Product Details

Sterility: Sterile filtered

Target Details

Target: IgG

Abstract: [IgG Products](#)

Target Type: Antibody

Background: Synonyms: rabbit anti-Mouse IgG Antibody, Rabbit-a-Mouse IgG (H&L), Mouse IgG Antibody in rabbit

Background: Anti-Mouse IgG antibody generated in rabbit detects specifically mouse IgG (H&L). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75 % of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsinization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both the Heavy and Light chains of the antibody molecule are present. 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. This anti-Mouse secondary antibody is ideal for investigators who routinely perform titration assays, western-blot, immunoprecipitation and more generally immunoassays.

Application Details

Application Notes: The rabbit anti-mouse IgG antibody ABIN101785 is suitable for use in ELISA, immunohistochemistry, and Western Blot, CUT&RUN and CUT&Tag. Specific conditions for each assay should be optimized by the end user. General ABIN101785 dilution recommendations for different applications are as follows:

- ELISA: 1:20,000 - 1:40,000
- WB: 1:2,000 - 1:10,000
- IHC: 1:1,000 - 1:5,000
- CUT&RUN: 1:100
- CUT&Tag: 1:100

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	2.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	12 months

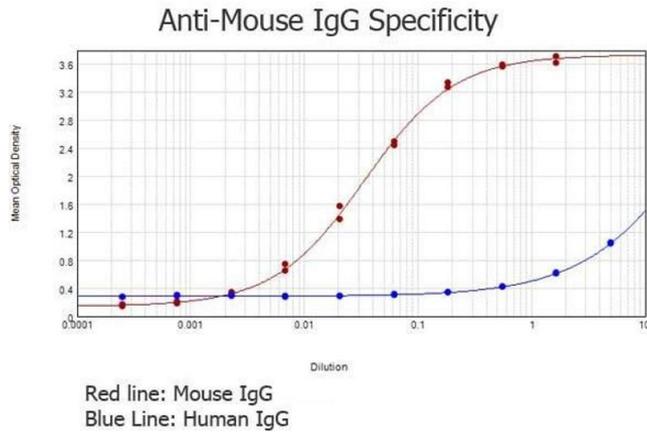
Publications

Product cited in: Fujiwara, Tanno, Sugishita, Kishi, Makino, Okada: "Preparation of optimized concanavalin A-conjugated Dynabeads® magnetic beads for CUT&Tag." in: **PLoS ONE**, Vol. 16, Issue 11, pp. e0259846, (2021) ([PubMed](#)).

Willcockson, Heaton, Weiss, Bartholdy, Botbol, Mishra, Sidhwani, Wilson, Pinto, Maron, Skalina, Toro, Zhao, Lee, Hou, Yusufova, Meydan, Osunsade, David, Cesarman, Melnick, Sidoli, Garcia, Edelmann et al.: "H1 histones control the epigenetic landscape by local chromatin compaction. ..." in: **Nature**, (2020) ([PubMed](#)).

Vonk, van Dooremalen, Liv, Klumperman, Coffey, Saris, Lorenowicz: "Mesenchymal Stromal/stem Cell-derived Extracellular Vesicles Promote Human Cartilage Regeneration In Vitro." in: **Theranostics**, Vol. 8, Issue 4, pp. 906-920, (2019) ([PubMed](#)).

Kooijmans, Gitz-Francois, Schiffelers, Vader: "Recombinant phosphatidylserine-binding nanobodies for targeting of extracellular vesicles to tumor cells: a plug-and-play approach." in: **Nanoscale**, Vol. 10, Issue 5, pp. 2413-2426, (2019) ([PubMed](#)).



ELISA

Image 1. ELISA results of purified Rabbit anti-Mouse IgG Antibody (min x Human Serum Proteins) tested against purified Mouse IgG. Each well was coated in duplicate with 1.0 μg of Mouse IgG. The starting dilution of antibody was 5 $\mu\text{g}/\text{ml}$ and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gelatin, Goat anti-Rabbit igG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) and TMB ELISA Substrate .