

Produktinformation



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PRODUCT INFORMATION



IgG2ak (mouse) Rabbit Monoclonal Antibody - Biotinylated (RM107)

Item No. 32351

Overview and Properties

Contents: This vial contains 50 µg of protein A-affinity purified monoclonal antibody.

Synonyms: Immunoglobulin G2ak

Immunogen: Mouse IgG

Cross Reactivity: (+) IgG2aκ; (-) Mouse IgG2aλ, IgG1, IgG3, IgM, IgA, IgE; (-) Human, goat, rat IgG

Species Reactivity: (+) Mouse Form: Liquid

Storage: -20°C (as supplied)

Stability: ≥1 vear

Storage Buffer: PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide

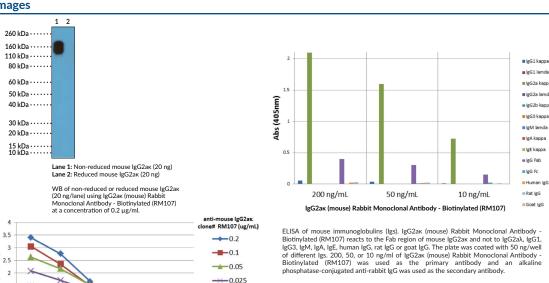
Concentration: 1 mg/ml RM107 Clone: Rabbit Host: Isotype: **IgG**

Applications: ELISA and Western blot (WB; non-reduced); the recommended starting concentration

is 0.005-0.2 $\mu g/ml$ for ELISA and 0.1-0.5 $\mu g/ml$ for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined

empirically.

Images



0.003 Mouse IgG2a kappa (50uL/well) A Titer ELISA using IgG2ак (mouse) Rabbit Monoclonal Antibody - Biotinylated (RM107).

The plate was coated with different amounts of mouse IgG2ax. A serial dilution of IgG2ax (mouse) Rabbit Monoclonal Antibody - Biotinylated (RM107) was used as the primary аntibody and an alkaline phosphatase-conjugated (кМ107) was used as the primary antibody and an alkaline phosphatase-conjugated anti-rabbit IgG was used as the secondary antibody.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

-0.006

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



Description

Immunoglobulin G (IgG) is a member of the immunoglobulin superfamily of glycoproteins that plays a central role in the adaptive immune response. It is produced by B cells and later secreted by plasma cells and is the most abundant circulating antibody in human and mouse serum.¹⁻³ IgG consists of two heavy chains of approximately 50 kDa each and two light chains of approximately 25 kDa each. The heavy chains are linked together by disulfide bonds to form an Fc region and also combine with the light chains to form the Fab region, which mediate receptor and antigen binding, respectively.⁴ IgG is produced following IgM class-switching in response to infection and is involved in numerous humoral host defense responses, including antibody-dependent cell-mediated cytotoxicity (ADCC), toxin neutralization, and pathogen opsonization.² IgG exists as four isotypes in mice: IgG1, IgG2b, IgG3, and, in a strain-specific manner, IgG2a or IgG2c.^{5,6} In vivo, class switching to the IgG2a isotype can happen via IFN-γ-dependent and -independent mechanisms, with the former resulting from the cognate interaction of B cells with T helper 1 (Th1) cells. IgG2a is the predominant isotype produced in response to infection with DNA or RNA viruses in mice.8 Mammalian immunoglobulins contain either Igκ or Igλ light chains, each of which are composed of a constant and variable domain. ⁹ Cayman's IgG2aκ (mouse) Rabbit Monoclonal Antibody - Biotinylated (RM107) can be used for ELISA and Western blot (WB; non-reducing conditions). The antibody recognizes the Fab region of IgG2ak from mouse samples.

References

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