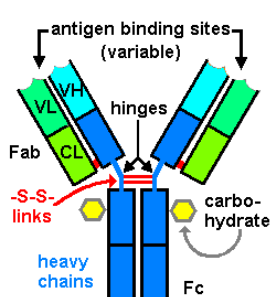


Product Data Sheet

Cat #20101-1

Purified Mouse IgG1k Isotype control

Size: 1 mg



Immunoglobulin G (IgG)

Immunoglobulin G (IgG) is a type of antibody. It is a protein complex composed of four peptide chains—two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. IgG has molecular weight of approximately 150 kDa, heavy or H chain approximately 50 kDa and light or L chain 25 kDa. Each IgG

has two antigen binding sites. Representing approximately 75% of serum antibodies in humans, IgG is the most common type of antibody found in the circulation. Maternal IgG is transferred to fetus through the placenta that is vital for immune defence of the neonate against infections.

Mouse IgG1 myeloma cells (MOPC-21) were grown in mice and ascites fluid collected. The IgG1k was purified by a combination of column chromatography (Sephadex, and DEAE-ion exchange columns) and immunoaffinity chromatography. The resulting preparation was judged to be >96% pure by immuno electrophoresis (IEP) and SDS-PAGE. The purified protein is IgG1 kappa

Form and Storage

Mouse IgG1k is provided as liquid (1 mg/ml in PBS pH 7.4 and 0.05% sodium azide as preservative) or in lyophilized form. The product should be **stored at 4°C** for short term and **-20°C** for long term storage. It is stable for a minimum of 1 year at **-20°C**.

The **lyophilized products** should be dissolved in PBS to prepare desired concentration by gentle rocking or vortexing at room temperature. Centrifuge the solution briefly (10,000 g, 15 min) to remove any particulate matter. It should be aliquoted and stored frozen for long term use.

Suggested Uses

This preparation of mouse IgG1k is suitable for coating the ELISA plates or as a isotype control for ELISA, dot blot, Western or IHC or other immunoassays.

Antibody concentration must be optimized for each application under defined experimental conditions.

MSDS: This product is considered non-hazardous as defined by OSHA (CFR 1910.1200, Nov 25, 1983). It can be disposed of in the drain.

Country of origin: USA

This product is for in vitro research use only.

Related Items

Catalog#	Prod Description
20102-101	Mouse IgG1 isotype control, purified
20102-101-1	Mouse IgG1 isotype control, purified
20102-101-A488	Mouse IgG1-Alexa 488 conjugate (isotype control)
20102-101-A555	Mouse IgG1-Alexa 555 conjugate (isotype control)
20102-101-A647	Mouse IgG1-Alexa 647 conjugate (isotype control)
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)
40121	Anti-Mouse IgG1 (heavy-chain sp.) aff pure, unlabeled
40121-BT	Anti-Mouse IgG1 (heavy-chain sp.)-biotin labeled
40121-F	Anti-Mouse IgG1 (heavy-chain sp.)-FITC conjugate
40121-U	Anti-Mouse IgG1, unlabeled
40126	Anti-Mouse IgG1 (heavy-chain sp.)-HRP Conjugate, aff pure
40126-200	Anti-Mouse IgG1-HRP Conjugate, aff pure
40126-GAF-BLK	Anti-Mouse IgG1, Affinity Purified (Bulk)
40126-GAS-BLK	Anti-Mouse IgG1, Antisera (Bulk)
6330	Mouse IgG1 ELISA Kit, 96 tests, Quantitative
CD59-B	Anti-Human CD59, (Biotin) (Clone 1F5) (mouse IgG1)
CD59-F	Anti-Human CD59, (FITC) (Clone 1F5) (mouse IgG1)
CD59-PE	Anti-Human CD59, (PE) (Clone 1F5) (mouse IgG1)
CD59UL-100	Anti-Human CD59, (Purified) (Clone 1F5) (mouse IgG1)
MCD081-B	Anti-Mouse/Rat CD81, Biotin (Clone Eat2)(mouse IgG1)
MCD081-F	Anti-Mouse/Rat CD81, FITC (Clone Eat2)(mouse IgG1)

20101-1-Mouse-IgG1

160202SV

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