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In Vivo Star Mouse IgG2b Isotype Control Antibody

Catalog Number:	571201, 571202, 571203
Size:	1 mg, 5 mg, 25 mg
Target Name:	Mouse IgG2b Isotype Control Antibody
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	IVSM2b
Application:	An isotype-matched negative control for Mouse IgG2b, kappa antibodies used in ELISA, Western Blot (WB), Flow Cytometry (Flow), Immunoprecipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), Immunohistochemistry (Frozen) (IHC (F)), and in vivo animal model research.
Reactivity:	N/A
Format:	Liquid
Isotype:	Mouse IgG2b, κ
Antibody Type:	Recombinant
Formulation:	0.2 μM filtered solution of 1x PBS.
Endotoxin Level:	Less than 1 EU/mg of protein as determined by LAL method.

BACKGROUND INFORMATION

Mouse IgG antibodies are classified into four major subclasses based primarily on the isotype of their heavy chains: IgG1, IgG2a (or IgG2c in certain mouse strains), IgG2b, and IgG3. Their light chains are either kappa (κ) or lambda (λ). Among these, IgG1 and kappa light chains are among the most abundant IgG isotypes found in mouse serum.

IgG antibodies are large glycoproteins with a molecular weight of approximately 150 kDa. They consist of four polypeptide chains: two identical heavy chains of approximately 50 kDa each and two identical light chains of approximately 25 kDa each. The chains are linked by disulfide bonds, forming a characteristic Y-shaped structure. Each light chain is connected to one heavy chain, while the two heavy chains are linked together in the hinge region. The antigen-binding sites are formed by the variable regions located at the tips of the two arms of the Y-shaped molecule, whereas the Fc region, formed by the constant regions of the heavy chains, mediates interactions with Fc receptors and other effector molecules.

Mouse IgG2b antibodies and engineered IgG2b variants are also widely used in therapeutic antibody discovery and development, where their binding specificity and Fc properties can be modified to achieve desired biological activities.