Recombinant Human IgA1 Protein

Catalog No.: RPT0023

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Sequence Information

Species
Human

Gene ID
3493

Swiss Prot
P01876-1

Tags
N-His

Synonyms
Immunoglobulin heavy constant alpha 1,Ig alpha-1 chain C region, Ig alpha-1 chain C region BUR,Ig alpha-1 chain C region TRO , IGHA1 ,IgA1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.27 kDa

Observed MW
30-40 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Recombinant Human IgA1 Protein， Constant region of immunoglobulin heavy chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulins-secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens .
The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen .

Basic Information

Description
Recombinant Recombinant Human IgA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys122-Tyr353) of Human IgA1 (Accession #P01876-1) fused with His tag at the N-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human IGHA1 (Catalog: RPT0023) at 5 μg/mL (100 μL/well) can bind Human CD89 /FCAR (Catalog: RP00113) with a linear range of 0.01-7.4 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

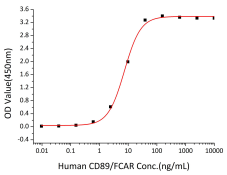
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

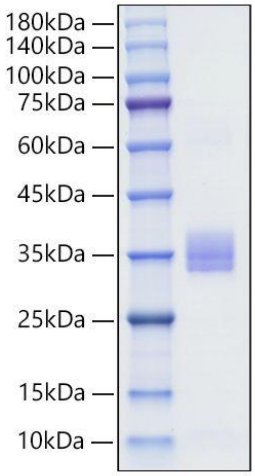
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Immobilized Human IGHA1 (Catalog: RPT0023) at 5 μg/mL (100 μL/well) can bind Human CD89/FCAR (Catalog: RP00113) with a linear range of 0.01-7.4 ng/mL.



Recombinant Human IgA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.