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Recombinant Mouse IgA Protein

Catalog No.: RPT0027LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse		A0A075B6A3

Tags
C-His

Synonyms

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
27.31 kDa

Observed MW
30-35 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Supplied as 0.22μm filtered solution in PBS, pH 7.4.

Reconstitution

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Immunoglobulin A (IgA) plays a key role in defending mucosal surfaces against attack by infectious microorganisms. Such sites present a major site of susceptibility due to their vast surface area and their constant exposure to ingested and inhaled material. The importance of IgA to effective immune defence is signalled by the fact that more IgA is produced than all the other immunoglobulin classes combined. Genetic sequence analysis has confirmed the presence of IgA in all categories of mammals (placental, marsupials, and monotremes) and in birds. However, there are notable species differences. Most mammals have a single IgA isotype. IgA1 and IgA2 subclasses akin to those in humans are only present in related primates, including chimpanzees, gorillas, and gibbons [5], consistent with IgA1 arising relatively recently in evolutionary terms. Orangutans have an equivalent of IgA1, but appear to have lost their form of IgA2. The other group of mammals to have more than one IgA are rabbits and other lagomorphs, which have a massively expanded number of IgA genes, resulting in 14 known subclasses, 11 of which are expressed. A 15th IgA was recently described in domestic European rabbits . While IgA is known to play a common role in protection at mucosal surfaces , the levels, forms, and distribution of IgA vary. For example, in species commonly used in experimental research, including mice, rats, and rabbits, the main for

Basic Information

Description
Recombinant Recombinant Mouse IgA Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys99-Tyr344) of Mouse IgA fused with His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
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Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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