

Datasheet

Biotinylated Human Fc gamma RIIA / CD32a (H131) Protein

Catalog # AMS.CDA-H82E6-200ug

For Research Use Only

Description

Source Biotinylated Human Fc gamma RIIA / CD32a (H131) Protein (CDA-H82E6) is expressed from human HEK293 cells. It contains AA Ala 36 - Ile 218 (Accession # P12318-1).

Predicted N-terminus Ala 36

Molecular Characterization This protein carries a 15 AA fragment at the C-terminus, followed by a polyhistidine tag. There is one single lysine residue within the 15 AA fragment that is enzymatically labeled with biotin in vivo. The protein has a calculated MW of 24 kDa. The predicted N-terminus is Ala 36. The reducing (R) protein migrates as 30-38 kDa in SDS-PAGE due to glycosylation.

Endotoxin Less than 1.0 EU per µg of the Biotinylated Human FcGR2A / CD32a (H131) by the LAL method.

Purity >95% as determined by SDS-PAGE.

Bioactivity The bioactivity is measured by its binding ability to Ipilimumab in a SPR assay. Immobilized Human FcGR2A / CD32a (H131), His Tag (Cat# CDA-H82E6) can bind Ipilimumab with affinity constant of around 2.3 µM.

Formulation and Storage

Formulation Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

Contact us for customized product form or formulation.

Reconstitution See Certificate of Analysis for reconstitution instructions and specific concentrations.

Storage Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C.

Avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

Background

Receptors for the Fc region of IgG (Fc γ R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc γ Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized.

There are three genes for human Fcγ RII /CD32 (A, B, and C) and one for mouse Fcγ RII B (CD32B). CD32 is a low affinity receptor for IgG. The activating isoform, CD32A, is expressed on monocytes, neutrophils, platelets and dendritic cells. CD32A is expressed on many immune cell types (macrophage, neutrophil, eosinophils, platelets, dendritic cells and Langerhan cells), where inhibitory ITIM-bearing receptors may also be coexpressed and co-engaged by specific ligands. CD32A delivers an activating signal upon ligand binding, and results in the initiation of inflammatory responses including cytolysis, phagocytosis, degranulation and cytokine production. The responses can be modulated by signals from the coexpressed inhibitory receptors such as CD32B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.

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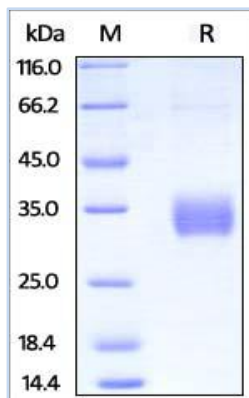
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Assay Data

SDS-PAGE Data

The purity of Biotinylated Human FcGR2A / CD32a (H131) was determined by SDS-PAGE under reducing (R) condition and staining overnight with Coomassie Blue.



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