

Recombinant Human Integrin alpha X beta 2 (ITGAX&ITGB2) Heterodimer Protein

Catalog No.: RP03247 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3687&3689	P20702-1(ITGAX)&P05107-1(ITGB2)

Tags

C-His

Synonyms

α X β 2; CD11C; SLEB6; CD18; ITGAX&ITGB2; ITGA; ITGB2

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE and HPLC.

Calculated MW	Observed MW
125.50 kDa(ITGAX)&79.50 kDa(ITGB2)	130-135 kDa(ITGAX)&85-95 kDa(ITGB2) kDa

Endotoxin

< 1.0 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

The integrin alpha X beta 2 (CD11c/CD18, p150,95) binds ligands through the I domain of the alpha X subunit. Ligands include the complement factor fragment iC3b, a key component in the innate immune defense, which, together with the expression of alpha X beta 2 on dendritic cells and on other leukocytes, suggests a role in the immune response.

Basic Information

Description

Recombinant Human Integrin alpha X beta 2 (ITGAX&ITGB2) Heterodimer Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence ((Phe20-Pro1107)(ITGAX)&(Gln23-Asn700)(ITGB2)) of human Integrin alpha X beta 2 (Accession #P20702-1&P05107-1) fused with His tag at the C-terminus.

Bio-Activity

Immobilized Human ITGAX&ITGB2, His Tag at 1 μ g/mL (100 μ L/well) on the plate. Dose response curve for Anti-ITGB2 Antibody, hFc Tag with the EC₅₀ of 26.8 ng/mL determined by ELISA.

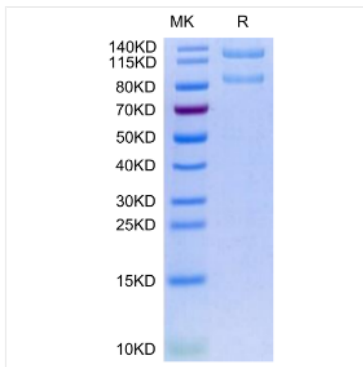
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

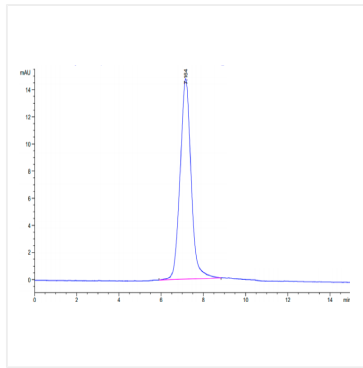


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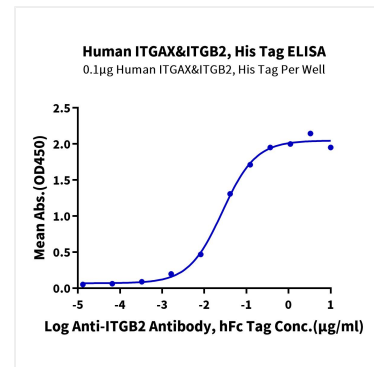
Validation Data



Recombinant Human Integrin alpha X beta 2 (ITGAX&ITGB2) Heterodimer Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 130-135 kDa (ITGAX) and 85-95 kDa (ITGB2).



The purity of Human ITGAX&ITGB2 is greater than 95% as determined by SEC-HPLC.



Immobilized Human ITGAX&ITGB2, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-ITGB2 Antibody, hFc Tag with the EC₅₀ of 26.8 ng/mL determined by ELISA.