HUMAN ITGAX-HIS AND ITGB2-HFC HETERODIMER PROTEIN

Cat.#: 12247

Product Name: Human ITGAX-His And ITGB2-HFc Heterodimer Protein

Size : 10 μg, 50 μg and 100 μg

Synonyms: Integrin alpha-XandIntegrin beta-2

Target: ITGAX andamp;ITGB2

UNIPROT ID: P20702;P05107

Description: Heterodimer protein contains recombinant human ITGAX protein with C-terminal 6xHis tag and human ITGB2 protein with C-terminal human Fc tag

Background: This gene encodes the integrin alpha X chain protein. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 120.6 and 101.0 kDa after removal of the signal peptide. The apparent molecular mass of ITGAX-His and ITGB2-hFc is approximately 130-180 kDa due to glycosylation.

Molecular Characterization: ITGAX(Phe20-Pro1107) 6×His tag and ITGB2(Gln23-Asn700) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

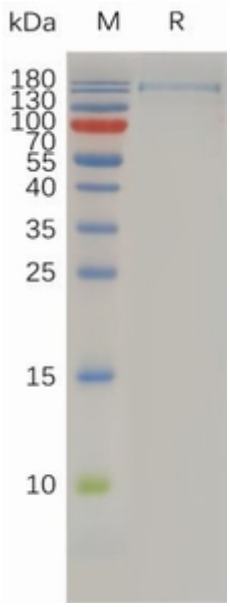

Figure 1. Human ITGAX & ITGB2 Heterodimer Protein, His Tag & hFc Tag on SDS-PAGE under reducing condition.