Human ITGB1 / Integrin beta-1 / CD29 Protein (ECD, His Tag)

Catalog Number: 10587-H08H1

General Information

Gene Name Synonym:

CD29; FNRB; GPIIA; MDF2; MSK12; VLA-BETA; VLAB

Protein Construction:

A DNA sequence encoding the human ITGB1 (CAA30790.1) (Met1-Asp728) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 90 % as determined by SDS-PAGE. ≥ 85 % as determined by SEC-HPLC.

Endotoxin:

< 1.0 EU per μg protein as determined by the LAL method.

Predicted N terminal: Gln 21

Molecular Mass:

The recombinant human ITGB1 consists of 749 amino acids and predicts a molecular mass of 83.3 kDa. As a result of glycosylation, it migrates as an approximately 117.8 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:
Samples are stable for twelve months from date of receipt at -20℃ to -80℃.

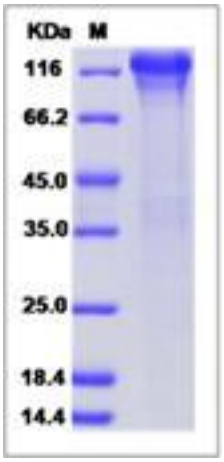
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ITGB1 is a heterodimeric cell-surface receptor involved in cell functions such as proliferation, migration, invasion and survival.Integrin beta1 (ITGB1) has been recognized to play a major role in tumor growth, invasion and metastasis.Using luciferase assays, we identified integrin beta1 (ITGB1) as a direct target of miR-134.ITGB1 is a direct target of miR-493-5p suggesting that ITGB1 and miR-493-5p may have potential prognostic value and may be useful as tumor biomarkers for the diagnosis of NSCLC patients.