Proteins



Product Data Sheet

Integrin alpha V beta 5 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.: HY-P700766

Synonyms: αVβ5; Integrin alpha V beta 5; beta5; alphaV; ITGAV&ITGB5; Integrin alpha V β 5; β5

Species: **HEK293** Source:

Accession: P06756 (F31-V992)&P18084 (G24-N719)

Gene ID: 3685&3693 Molecular Weight: 85-140 kDa

PROPERTIES

Biological Activity	Immobilized Anti-alpha V Antibody, hFc Tag at $1\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB5, His Tag with the EC ₅₀ of 0.29 $\mu l/ml$ determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH $_2$ O.

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Storage & Stability

Background

Shipping

The Integrin alpha V beta 5 protein, specifically the alpha-V (ITGAV) integrin subunit, serves as a versatile receptor for a range of ligands, including vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, and vWF. Recognizing the sequence R-G-D in various ligands, ITGAV:ITGB3 binds to fractalkine, acting as a coreceptor in CX3CR1-dependent fractalkine signaling. Additionally, it forms essential binding interactions with NRG1, FGF1, FGF2, IGF1, IGF2, IL1B, PLA2G2A, fibrillin-1 (FBN1), and CD40LG, contributing to diverse signaling pathways. Notably, the ITGAV:ITGB3 or ITGAV:ITGB6 complex acts as a receptor for transforming growth factor beta-1 (TGF-beta-1), mediating its release from regulatory Latency-associated peptide (LAP) and playing a crucial role in TGF-beta-1 activation. Furthermore, ITGAV:ITGB5 functions as a receptor for Adenovirus type C during microbial infection. The integrative and multifunctional nature of Integrin alpha V beta 5 underscores its pivotal role in mediating diverse cellular responses and signaling cascades.

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

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