

AR51304PU-N

Human CD29 / Integrin beta-1 (21-461, His-tag) - Purified

Alternate names:

FNRB, Fibronectin receptor subunit beta, ITGB1, Integrin VLA-4 subunit beta, MDF2, MSK12

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene.

Uniprot ID:
[P05556](#)
NCBI:
[NP_002202](#)
GeneID:
[3688](#)
Species:

Human

Source:

E. coli

Format:
State: Liquid purified protein

Purity: >80% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description:

Recombinant human ITGB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MQTDENRCLK ANAKSCGECI QAGPNCGWCT NSTFLQEGMP
TSARCDLEA LKKKGCPDD IENPRGSKI KKNKNVTNRS KGTAELKPE DITQIQPQL
VLRLRSGEPQ TFTLKFKRAE DYPIDLYLM DLSYSMKDDL ENVKSLGTDL MNEMRRITSD
FRIGFGSFE KTVMPYISTT PAKLRNPCTS EQNCTSPFSY KNVLSLTNKG EVFNELVGKQ
RISGNLDSPE GGFDAIMQVA VCGSLIGWRN VTRLLVFSTD AGFHFAGDGK LGGIVLPNDG
QCHLENNMYT MSHYYDPSI AHLVQKLSN NIQTIFAVTE EFQPVYKELK NLIPKSAVGT
LSANSSNVIQ LIIDAYNSLS SEVILENGKL SEGVITISYKS YCKNGVNGTG ENGRKCSNIS
IGDEVQFEIS ITSNKCPKDD SDSFKIRPLG FTEEVEVILQ YI

Molecular weight: 51.2 kDa (462aa)

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Pellinen T., et al. (2008) Dev. Cell. 15:371-385.
2. Chuang N.N., et al. (2007) Biochem. Soc. Trans. 35:1292-1294.

Pictures:

