

Recombinant human Integrin beta 1/CD29 protein

Catalog Number: ATGP2484

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-465aa

UniProt No.

P05556

NCBI Accession No.

NP_002202

Alternative Names

Integrin beta 1, CD29, VLAB, VLA-4 subunit beta, MSK12, MDF2, GPIIA, Glycoprotein Iia, FNRB, Fibronectin receptor subunit beta

PRODUCT SPECIFICATION

Molecular Weight

51.7 kDa (462aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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. Recombinant human

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

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MQTDENRCLK ANAKSCGECI QAGPNCGWCT NSTFLQEGMP TSARCDDLEA
LKKKGCPPDD IENPRGSKDI KKNKNVTNRS KGTAELKPE DITQIQPQQL VLRLRSGEPQ TFTLKFRAE DYPIDLYLM
DLSYSMKDDL ENVKSLGTDL MNEMRRITSD FRIGFGSFVE KTVMPYISTT PAKLRNPCTS EQNCTSPFSY KNVLSLTNKG
EVFNELVGKQ RISGNLDSPE GGFDAIMQVA VCGSLIGWRN VTRLLVFSTD AGFHFAGDGK LGGIVLPNDG QCHLENNMYT
MSHYDYPSI AHLVQKLSN NIQTIFAVTE EFQPVYKELK NLIPKSAVGT LSANSSNVIQ LIIDAYNSLS SEVILENGKL
SEGVTISYKS YCKNGVNGTG ENGRKCSNIS IGDEVQFEIS ITSNNKCPKSD SDSFKIRPLG FTTEEVEVILQ YICECE

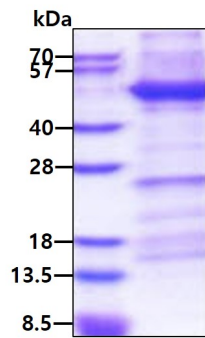
General References

Pellinen T., et al. (2008) Dev. Cell. 15:371-385

Chuang N.N., et al. (2007) Biochem. Soc. Trans. 35:1292-1294

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain