

Recombinant human Integrin beta 1/CD29 protein

Catalog Number: ATGP3549

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-728aa

UniProt No.

P05556

NCBI Accession No.

NP_002202.2

Alternative Names

CD29, Fibronectin receptor subunit beta, FNRB, Glycoprotein Iia, GPIIA, Integrin beta-1 isoform 1A, ITGB1, MDF2, MSK12, VLA-4 subunit beta, VLAB, VLA-BETA

PRODUCT SPECIFICATION

Molecular Weight

79.4 kDa (716aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

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

ITGB1, also known as integrin beta-1 isoform 1A, is the only alpha 1 integrin family adhesion receptor, one of twelve integrins that share the beta 1 subunit, and one of four collagen binding integrins. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including

Recombinant human Integrin beta 1/CD29 protein

Catalog Number: ATGP3549

embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This protein is reported to down-regulate EGF-R signaling, increase expression of caveolin-1, reduce production of reactive oxygen species, regulate collagen expression, control MMP collagenase and gelatinase activity, and mediate the renal basement membrane disorder Alport syndrome. Recombinant human ITGB1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

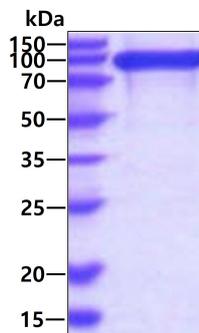
QTDENRCLKA NAKSCGECIQ AGPNCGWCTN STFLQEGMPT SARCDLEAL KKKGCPPDDI ENPRGSKDIK KNKNVTNRSK
GTAEKLPED ITQIQPQLV LRLRSGEPQT FTLKFKRAED YPIDLYLMD LSYMKDDLE NVKSLGTDLM NEMRRITSDF
RIGFGSFVEK TVMPYISTTP AKLRNPCTSE QNCTSPFSYK NVLSLTNKGE VFNELVGKQR ISGNLDSPEG GFDAIMQVAV
CGSLIGWRNV TRLLVFSTDA GFHFAGDGKL GGIVLPNDGQ CHLENNMYTM SHYYDYPSIA HLVQKLENN IQTIFAVTEE
FQPVKELKN LIPKSAVGTL SANSSNVIQL IIDAYNSLSS EVILENGKLS EGVTSYKSY CKNGVNGTGE NGRKCSNISI
GDEVQFEISI TSNKCPKDS DSFKIRPLGF TEEVEVILQY ICECECQSEG IPESPKCHEG NGTFECGACR CNEGRVGRHC
ECSTDEVNSE DMDAYCRKEN SSEICSNNGE CVCQCVCVRK RDNTNEIYSG KFCECDNFNC DRNGLICGG NGVCKCRVCE
CNPNYTGSAC DCSLDTSTCE ASNGQICNGR GICECGVCKC TDPKFQGQTC EMCQTCLGVC AEHKECVQCR AFNKGEKDT
CTQECSYFNI TKVESRDKLP QPVQDPVSH CKEKDVDCCW FYFTYSVNGN NEVMVHVVEN PECPTGPD<LE HHHHHH>

General References

Wang XM., et al. (2013) PLoS One. 8: e55714.
Minchenko OH., et al. (2014) Ukr Biochem J. 86:79-89.

DATA

SDS-PAGE



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