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

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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

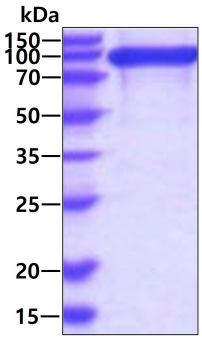
QTDENRCLKA NAKSCGECIQ AGPNCGWCTN STFLQEGMPT SARCDDLEAL KKKGCPPDDI ENPRGSKDIK KNKNVTNRSK GTAEKLKPED ITQIQPQQLV LRLRSGEPQT FTLKFKRAED YPIDLYYLMD LSYSMKDDLE NVKSLGTDLM NEMRRITSDF RIGFGSFVEK TVMPYISTTP AKLRNPCTSE QNCTSPFSYK NVLSLTNKGE VFNELVGKQR ISGNLDSPEG GFDAIMQVAV CGSLIGWRNV TRLLVFSTDA GFHFAGDGKL GGIVLPNDGQ CHLENNMYTM SHYYDYPSIA HLVQKLSENN IQTIFAVTEE FQPVYKELKN LIPKSAVGTL SANSSNVIQL IIDAYNSLSS EVILENGKLS EGVTISYKSY CKNGVNGTGE NGRKCSNISI GDEVQFEISI TSNKCPKKDS DSFKIRPLGF TEEVEVILQY ICECECQSEG IPESPKCHEG NGTFECGACR CNEGRVGRHC ECSTDEVNSE DMDAYCRKEN SSEICSNNGE CVCGQCVCRK RDNTNEIYSG KFCECDNFNC DRSNGLICGG NGVCKCRVCE CNPNYTGSAC DCSLDTSTCE ASNGQICNGR GICECGVCKC TDPKFQGQTC EMCQTCLGVC AEHKECVQCR AFNKGEKKDT CTQECSYFNI TKVESRDKLP QPVQPDPVSH CKEKDVDDCW 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



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