# Recombinant human Integrin beta 4/CD104 protein

Catalog Number: ATGP3753

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
28-710aa

**UniProt No.**
P16144

**NCBI Accession No.**
NP_000204.3

**Alternative Names**
Integrin beta-4 isoform 1, ITGB4, CD104, GP150

## PRODUCT SPECIFICATION

**Molecular Weight**
77.5 kDa (691aa)

**Concentration**
0.5mg/ml (determined by absorbance at 280nm)

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

**Purity**
> 90% 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**
ITGB4, also known as integrin beta-4 isoform 1, is a member of the Integrin beta family. It forms noncovalent heterodimers with Integrin alpha 6 and participates in the formation of epithelial hemidesmosomes. This protein plays a critical structural role in the hemidesmosome of epithelial cells and is required for the regulation of keratinocyte polarity and motility. The heterodimer of them binds to NRG1 and this binding is essential for NRG1-

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ERBB signaling and binds to IGF1 and this binding is essential for IGF1 signaling. It tends to associate with alpha 6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Recombinant human ITGB4 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

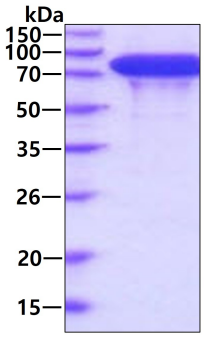
NRCKKAPVKS CTECVRVDKD CAYCTDEMFR DRRCNTQAEL LAAGCQRESI VVMESSFQIT EETQIDTTLR RSQMSPQGLR VRLRPGEERH FELEVFEPLE SPVDLYILMD FSNSMSDDLD NLKKMGQNLA RVLSQLTSDY TIGFGKFVDK VSVPQTDMRP EKLKEPWPNS DPPFSFKNVI SLTEDVDEFR NKLQGERISG NLDAPEGGFD AILQTAVCTR DIGWRPDSTH LLVFSTESAF HYEADGANVL AGIMSRNDER CHLDTTGTYT QYRTQDYPSV PTLVRLLAKH NIIPIFAVTN YSYSYYEKLH TYFPVSSLGV LQEDSSNIVE LLEEAFNRIR SNLDIRALDS PRGLRTEVTS KMFQKTRTGS FHIRRGEVGI YQVQLRALEH VDGTHVCQLP EDQKGNIHLK PSFSDGLKMD AGIICDVCTC ELQKEVRSAR CSFNGDFVCG QCVCSEGWSG QTCNCSTGSL SDIQPCLREG EDKPCSGRGE CQCGHCVCYG EGRYEGQFCE YDNFQCPRTS GFLCNDRGRC SMGQCVCEPG WTGPSCDCPL SNATCIDSNG GICNGRGHCE CGRCHCHQQS LYTDTICEIN YSAIHPGLCE DLRSCVQCQA WGTGEKKGRT CEECNFKVKM VDELKRAEEV VVRCSFRDED DDCTYSYTME GDGAPGPNST VLVHKKKDCP PGS<LEHHHHH H>

### General References

An XZ., et al, (2016) Oncotarget. 7:24719-24733.
Li XL., et al, (2017) Sci Rep. 7:40464.

## DATA

### SDS-PAGE




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