

Recombinant Human ITGB4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ITGB4-5769H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ITGB4 MS Standard C13 and N15-labeled recombinant protein (NP_000204) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Integrins are heterodimers comprised of alpha and beta subunits, that are noncovalently associated transmembrane glycoprotein receptors. Different combinations of alpha and beta polypeptides form complexes that vary in their ligand-binding specificities. Integrins mediate cell-matrix or cell-cell adhesion, and transduced signals that regulate gene expression and cell growth. This gene encodes the integrin beta 4 subunit, a receptor for the laminins. This subunit tends to associate with alpha 6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Mutations in this gene are associated with epidermolysis bullosa with pyloric atresia. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Molecular Mass	202.12 kDa
AA Sequence	MAGPRPSPWARLLLAALISVLSGTLANRCKKAPVKSCTECVRVDKDCAYCTDEMF RDRRCNTQAELLAAGCQRESIVMESSFQITEETQIDTTLRRSQMSPQGLRVRLRP GEERHFELEVFEPLSPVDLYILMDFSNSMSDDLNLKMGQNLARVLSQLTSDYTI

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GFGKFVDKVSVPQTDMRPEKLKEPWPNSDPPFSFKNVISLTEDVDEFNRNKLQGERI
SGNLDAPEGGFDAILQTAVCTRDIGWRPDSTHLLVFSTESAFHYEADGANVLAGIMS
RNDERCHLDTTGTYTQYRTQDYPSVPTLVRLAKHNIPIFAVTNYSYSYYEKLHTYF
PVSSLGVLQEDSSNIVELLEAFNRIRSNLDIRALDSPRGLRTEVTSKMFQKTRTGSF
HIRRGEVGIYQVQLRALEHVDGTHVCQLPEDQKGNHILKPSFSDGLKMDAGIICDVC
TCELQKEVRSARCSFNNGDFVCGQCVCSEGWSGQTCNCSTGSLSDIQPCLREGEDK
PCSGRGECQCGHCVCYGEGRYEGQFCEYDNFQCPRTSGFLCNDRGRCSMGQCV
CEPGWTGPSCDCPLSNATCIDSNGGICNGRGHCECGRCHCHQQSLYTDITICEINYS
AIHPGLCEDLRSCVQCQAWGTGEKKGRTCEEKNFKVKMVDELKRAEEVVVRCSEFR
DEDDDDCTYSYTMEGDGAPGNSTVLVHKKKDCPPGSFWWLIPLLLLLLPLALLLLL
CWKYCACCKACLALLPCCNRGHMVGFKEDHYMLRENLMASDHLDTPMLRSGNLK
GRDVVRWKVTNNMQRPGFATHAASINPTLVYPYGLSLRLARLCTENLLKPDTRACA
QLRQEVEENLNEVYRQISGVHKLQQTKFRQQPNAGKKQDHTIVDTVLMAPRSAKPA
LLKLTEKQVEQRAFHDLVAPGYTTLADQDARGMVEFQEGVELVDVRVPLFIRPED
DDEKQLLVEAIDVPAGTATLGRRLVNITIIKEQARDVVSFEQPEFSVSRGDQVARIPVI
RRVLDGGKSQVSYRTQDGTAAQGNRDYIPVEGELLFQPGAEWKLQVKLLELQEVD
SLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPELDRSFTSQMLSSQPPPHG
DLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIQGDSESEAHLLDSKVPS
VELTNLYPYCDYEMKVCAYGAQGEGPYSSLVSCRTHQEVSEPGRALFNVVSSTVT
QLSWAEPATNGETAYEVCYGLVNDNRPIGPMKKVLVDNPNRMLLIENLRESQP
YRYTVKARNAGWGPEREAIINLATQPKRPMISIIPDIPVDAQSGEDYDSFLMYSD
DVLRSPPSGSQRPSVSDDTGCGWKFEPLLGEELDLRRVTWRLPPELIPRLSASSGRS
SDAEAPHGPPDDGGAGGKGGSLPRSATPGPPGEHLVNGRMDFAFPGSTNSLHRM
TTTSAAAYGTHLSPHVPHRVLSTSSLTTRDYNLSLTRSEHSHSTTLXRDYSTLTSVSS
HDSRLTAGVPDTPTRLVFSALGPTSLRVSWQEPRCERPLQGYVVEYQLLNGGELHR
LNIPNPAQTSVVVEDLLPNHSYVFRVRAQSQEGWGREREGVITIESQVHPQSPLCPL
PGSAFTLSTPSAPGPLVFTALSPDSLQLSWERPRRPNGDIVGYLVTCEMAQGGGPA
TAFRVDGDSPE SRLTVPGLSENVYPYKFKVQARTTEGFGPEREGIITIESQDGGPFPQ
LGSRAGLFQHPLQSEYSSITTTHTSATEPFLVDGPTLGAQHLEAGGSLTRHVTQEFV
SRTLTTSGTLSTHMDQQFFPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

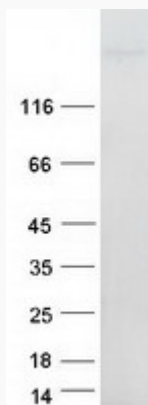
GENE INFORMATION

Gene Name	ITGB4 integrin subunit beta 4 [Homo sapiens (human)]
Official Symbol	ITGB4
Synonyms	ITGB4; integrin, beta 4; integrin beta-4; CD104; GP150; CD104 antigen; integrin beta-4 subunit;
Gene ID	3691
mRNA Refseq	NM_000213
Protein Refseq	NP_000204
MIM	147557
UniProt ID	P16144

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SDS-PAGE

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