

Recombinant Human ITGA6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ITGA6-1218H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ITGA6 MS Standard C13 and N15-labeled recombinant protein (NP_000201) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 6 subunit. This subunit may associate with a beta 1 or beta 4 subunit to form an integrin that interacts with extracellular matrix proteins including members of the laminin family. The alpha 6 beta 4 integrin may promote tumorigenesis, while the alpha 6 beta 1 integrin may negatively regulate erbB2/HER2 signaling. Alternative splicing results in multiple transcript variants.
Molecular Mass	119.48 kDa
AA Sequence	MAAAGQLCLLYLSAGLLSRLGAAFNLDTREDNVIRKYGDPSLFGFSLAMHWQLQP EDKRLLLVGAPRAEALPLQRANRTGGLYSCDITARGPCTRIEFDNDADPTSESKEDQ WMGVTVQSQGPGGKVVTCAHRYEKRQHVNTKQESRDIFGRCYVLSQNLRIEDDMD GGDWSFCDGRLRGHEKFGSCQQGVAATFTKDFHYIVFGAPGTYNWKGIVRVEQKN

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NTFFDMNIFEDGPYEVGGETEHDESLVPVPANSYLGFSLD SGKGIVSKDEITFVSGA
 PRANHSGAVVLLKRDMKSAHLLPEHIFDGEGLASSFGYDVAVVDLNKDGWQDIVIGA
 PQYFDRDGEVGGAVYVYMNQQGRWNNVKPIRLNGTKDSMFGIAVKNIGDINQDGY
 PDIAVGAPYDDLKGVFIYHGSANGINTKPTQVLKGISPYFGYSIAGNMDLDRNSYPDV
 AVGSLSDSVTIFRSRPVINIQTITVTPNRIDL RQKTACGAPSGICLQVKSCFEYTANP
 AGYNPSISIVGTLEAEKERRKSGLSSRVQFRNQGSEPKYTQELTLKRQKQKVCMEE
 TLWLQDNIRDKLRPIPIITASVEIQEPSSRRRVNSLPEVLPILNSDEPKTAHIDVHFLKE
 GCGDDNVCNSNLKLEYKFCTREGNQDKFSYLP IQKGVPELVLDQDKDIALEITVTNS
 PSNPRNPTKDGDDAHEAKLIATFPDTLTYSAYRELRAFPEKQLSCVANQNGSQADC
 ELGNPFKRNSNVTFYLVLTTEVTFDTPDL DINLKLETTSNQDNLAPITAKAKVVIALL
 SVSGVAKPSQVYFGGTVVGEQAMKSEDEVGSLIEYEF RVINLGKPLTNLGTATLNIQ
 WPKEISNGKWLLYLVKVESKGLEKVTCEPQKEINSLNLTESHNSRKKREITEKQIDDN
 RKFSLFAERKYQTLNCSVNVNCVNIRCPLRGLDSKASLILRSRLWNSTFLEEYSKLN
 LDILMRAFIDVTAAAENIRLPNAGTQVRVTVFPSKTVAQYSGVPWWIILVAILAGILMLA
 LLVFILWKCGFFKRNNKDHYDATYHKA EIIHAQPSDKERLTSDATRTRPLEQKLISEED
 LAANDILDYKDDDDKV

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

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Gene Name	ITGA6 integrin subunit alpha 6 [Homo sapiens (human)]
Official Symbol	ITGA6
Synonyms	ITGA6; integrin, alpha 6; integrin alpha-6; CD49f; integrin alpha6B; CD49 antigen-like family member F; VLA-6; ITGA6B; FLJ18737; DKFZp686J01244;
Gene ID	3655
mRNA Refseq	NM_000210
Protein Refseq	NP_000201
MIM	147556
UniProt ID	P23229
SDS-PAGE	