

Product datasheet for PH321990

Integrin alpha 6 (ITGA6) (NM_000210) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ITGA6 MS Standard C13 and N15-labeled recombinant protein (NP_000201)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221990
Predicted MW:	119.48 kDa
Protein Sequence:	>RC221990 representing NM_000210 Red=Cloning site Green=Tags(s)

MAAAGQLCLLYLSAGLLSRLGAAFNLDTRDNVIRKYGDPSLFGFSLAMHWQLQPEDKRLLLVGAPRAE
ALPLQRANRTGGLYSCDITARGPCTRIEFDNDADPTSESKEDQWMGVTVQSQGGKVVVTCARHYEKRQH
VNTKQESRDIFGRCYVLSQNLRIEDDMGGDWSFCGRLRGHEKFGSCQQGVAATFTKDFHYIVFGAPGT
YNWKGIVRVEQKNNTFFDMNIFEDGPYEVGGETEHDSESLVVPANSYLGFSLDGKGVSKDEITFVSGA
PRANHSGAVVLLKRDMSAHLLEPHIFDGEGLASSFGYDVAVVDLNKDGWQDIVIGAPQYFDRDGEVGGAA
VYVYMNQQGRWNNVKPIRLNGTKDSMFGIAVKNIQDINQDGYPDIAVGAPYDDLKGVFIYHGSANGINTK
PTQVLKGI SPYFGYSIAGNMDLDRNSYPDVAVGSLSDSVTIFRSRPVINIQTITVTPNRIDLKQKTACG
APSGICLQVKSCFEYTANPAGYNPSISIVGTLEAEKERRKSSRVQFRNQSEPKYTQELTLKRQKQK
VCMEETLWLQDNIRDKLRPIPTASVEIQEPSSRRRVNSLPEVLPILNSDEPKTAHIDVHFLKEGCGDDN
VCNSNLKLEYKCTREGNQDKFSYLP IQKGVPELV LKQDKDIALEITVTNSPSPNPNPTKDGDDAHEAKL
IATFPD TLTY SAYRELRAFPEKQLSCVANQNGSQADCELG NPFKRNSNVTFYLVLSTTEVTFDTPDLIN
LKLETTSNQDNLAPITAKAKVVI ELLLSVSGVAKPSQVYVGGTVVGEQAMKSEDEVGSLIEYEFVRLNGL
KPLTNLGTATLNIQWPKEISNGKWL LYLKVESKGLEKVTCEPQKEINSLNLTESHNSRKKREITEKQID
DNRKFSLFAERKYQTLNCSVNVNVCNIRCLRGLDSKASLILRSRLWNSTFLEEYSKLNLYDILMRAFID
VTA A AENIRLPNAGTQVRVTVFPSKTVAQYSGVPWWIILVAILAGILMLALLVFI LWKCGFFKRKNDHY
DATYHKAEIHAQPSDKERLTSDA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000201
RefSeq Size:	5611
RefSeq ORF:	3219
Synonyms:	CD49f; ITGA6B; VLA-6
Locus ID:	3655
UniProt ID:	P23229
Cytogenetics:	2q31.1
Summary:	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. [provided by RefSeq, Oct 2015]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer

Product images:



Coomassie blue staining of purified ITGA6 protein (Cat# [TP321990]). The protein was produced from HEK293T cells transfected with ITGA6 cDNA clone (Cat# [RC221990]) using MegaTran 2.0 (Cat# [TT210002]).