

## Product datasheet for PH322614

### CD41 (ITGA2B) (NM\_000419) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ITGA2B MS Standard C13 and N15-labeled recombinant protein (NP_000410)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222614
Predicted MW:	113.4 kDa
Protein Sequence:	>RC222614 protein sequence Red=Cloning site Green=Tags(s)

MARALCPLQALWLEWVLLLLGPCAAPPAWALNLDPVQLTFYAGPNGSQFGFSLDFHKDSHGRVAIVVGA  
PRTLGPSQEETGGVFLCPWRAEGGQCPSLLFDLRDETRNVGSQTLQTFKARQGLGASVVSWSVDIVACAP  
WQHWNVLEKTEEAETKTPVGCFLAQPEGRRAEYSPCRGNTLSRIYVENDFSWDKRYCEAGFSSVVTQAG  
ELVVGAPGGYYFLGLLAQAPVADIFSSYRPGILLWHVSSQSLSFSSNPEYFDGYWGYSVAVGEFDGDLN  
TTEYVVGAPTWSWTLGAVEILDSYYQRLHRLRGEQMASYFGHSVAVTDVNGDGRHDLVGLPYMESRAD  
RKLAEVGRVYFLQPRGPHALGAPSLLLTGTQLYGRFGSAIAPLGDLDLDGYNDAVAAPYGGPSGRGQV  
LVFLGQSEGLRSRPSQVLDSPFPTGSAFGFSLRGAVIDDNGYDPLIVGAYGANQVAVYRAQPVVKASVQ  
LLVQDSLNPVAVKSCVLPQTKTPVSCFNQMCGVATGHNIPQKLSLNAELQLDRQKPRQGRVLLLSQQA  
GTTLNLDLGGKHSPICHTTMAFLRDEADFRDKLSPIVLSLNVSLPPTTEAGMAPAVVLHGDTHTVQEQTRIV  
LDCGEDDVCVPQLQLTASVTGSPLLVGADNVLELQMDAANEGEGAYEAELAVHL PQGAHYMRALS NVEGF  
ERLICNQKENETRVVLCELGNPMKNAQIGIAMLVSVGNLEEAGESVSFQLQIRSKNSQNPNSKIVLLD  
VPVRAEAQVELRGNSFPASLVAAEEGEREQNSLDSWGPKEHTYELHNNPGPTVNLHL SIHLPGQSQP  
SDLLYILDIQPQGLQCFPPVPLKVDWGLPIPSPSPIHPAHHKRRRQIFLPEPEQPSRLQDPVLVS  
CDSAPCTVVQCDLQEMARGQRAMVTVLAFWLPSLYQRPLDQFVLQSHAWFNVSSLPYAVPPLSLPRGEA  
QVWTQLLRALEREAPIIWWVLVGLGLLLLTILVLA MWKVGFFKRNRPLEEDDEEGE

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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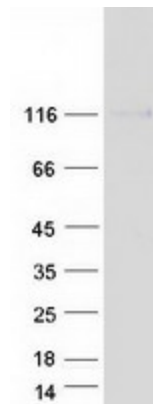
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_000410</a>
RefSeq Size:	3334
RefSeq ORF:	3117
Synonyms:	BDPLT2; BDPLT16; CD41; CD41B; GP2B; GPIIb; GT; GT1; GTA; HPA3; PPP1R93
Locus ID:	3674
UniProt ID:	<a href="#">P08514</a>
Cytogenetics:	17q21.31

**Summary:** This gene encodes a member of the integrin alpha chain family of proteins. The encoded preproprotein is proteolytically processed to generate light and heavy chains that associate through disulfide linkages to form a subunit of the alpha-IIb/beta-3 integrin cell adhesion receptor. This receptor plays a crucial role in the blood coagulation system, by mediating platelet aggregation. Mutations in this gene are associated with platelet-type bleeding disorders, which are characterized by a failure of platelet aggregation, including Glanzmann thrombasthenia. [provided by RefSeq, Jan 2016]

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

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), 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 ITGA2B protein (Cat# [TP322614]). The protein was produced from HEK293T cells transfected with ITGA2B cDNA clone (Cat# [RC222614]) using MegaTran 2.0 (Cat# [TT210002]).