

Product datasheet for PH308838

ZAP70 (NM_001079) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ZAP70 MS Standard C13 and N15-labeled recombinant protein (NP_001070)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208838
Predicted MW:	69.7 kDa
Protein Sequence:	>RC208838 representing NM_001079 Red=Cloning site Green=Tags(s)

MPDPA AHL PFFYGSISR AEAEHLKLAGMADGLFLLRQCLRSLGGYVLSLVHDVRFHHPPIERQLNGTYA
IAGGKAHCGPAELCEFYSRDPDGLPCNLRKPCNRPSGLEPQPGVDFCLRDAMVRDYVRQTWKLEGEALEQ
AIIISQAPQVEKLIATTAHERMPWYHSSLTREEAERKLYSGAQTGKFLLRPRKEQGTYSLSIYGKTVYH
YLISQDKAGKYCIPEGTKFDTLWQLVEYLKADGLIYCLKEACPSSASNASGAAAPTLP AHPSTLTHP
QRRIDTLNSDGYTPEPARITSPDKPRPMPMDTSVYESPYSDPEELKDKKFLKRDNLLIADIELGCGNFG
SVRQGVYMRKKQIDVAIKVLKQGTEKADTEEMMREAQIMHQLDNPYIVRLIGVCQAEALMLVMEMAGGG
PLHKFLVGKREEIPVSNVAELLHQVSMGMKYLEEKNFVHRDLAARNVLLVNRHYAKISDFGLSKALGADD
SYTARSAGKWPLKWAYPECINFRKFSRSRSDVWSYGVTMWEALSYGQKPYKMKGPVMAFIEQGKRMEC
PPECPELYALMSDCWIYKWEDRPDFTLVEQRM RACYSLASKVEGPPGSTQKAEACAA

SGP TRTRRLEQKLI 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
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_001070
RefSeq Size:	2450
RefSeq ORF:	1857



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Synonyms: ADMIO2; IMD48; SRK; STCD; STD; TZK; ZAP-70

Locus ID: 7535

UniProt ID: [P43403](#)

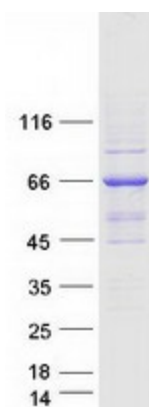
Cytogenetics: 2q11.2

Summary: This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Natural killer cell mediated cytotoxicity, Primary immunodeficiency, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified ZAP70 protein (Cat# [TP308838]). The protein was produced from HEK293T cells transfected with ZAP70 cDNA clone (Cat# [RC208838]) using MegaTran 2.0 (Cat# [TT210002]).