

Product datasheet for PH313207

Ikaros (IKZF1) (NM_006060) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IKZF1 MS Standard C13 and N15-labeled recombinant protein (NP_006051)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213207
Predicted MW:	57.3 kDa
Protein Sequence:	>RC213207 representing NM_006060 Red=Cloning site Green=Tags(s)

MDADEGQDMSQVSGKESPPVSDTPDEGDEPMPIPEDLSTTSGGQQSSKSDRVVASNVKVVETQSDEENGRACEMNGECAEDLRMLDASGEKMNGSHRDQGSSALSGVGGIRLPNGKLCDCIGIICIGPNVLMVHKRSHTGERPFQCNQCGASFTQKGNLLRHIKLHSGEKPFKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYGRSYKQRSSLEEHEKCHNYLESMLPGTLYPVIKEETNHSEMAEDLCKIGSERSLVLDRLASNAVAKRKSSMPQKFLGDKGLSDTPYDSSASYEKENEMMKSHVMDQAINNAINYLGAESLRPLVQTPPGGSEVVPVISPMYQLHKPLAEGTPRSNHSQAQSAVENLLLLSKAKLVPSEREASPSNSCQDSTDTESNNEEQRSLIYL TNHIAPHARNGLSLKEEHRAVDLLRAAENSQDALRVVSTSGEQMKVYKCEHCRVLF LDHVMYTIHMGCHGFRDPFECNMCGYHSQDRYEFSSHITRGEHRFHMS

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
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:	<u>NP_006051</u>
RefSeq Size:	3962
RefSeq ORF:	1557



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Synonyms: CVID13; Hs.54452; IK1; IKAROS; LyF-1; LYF1; PPP1R92; PRO0758; ZNFN1A1

Locus ID: 10320

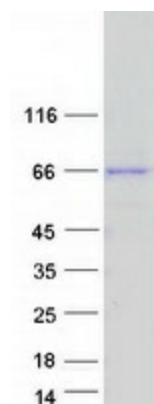
UniProt ID: [Q13422](#), [R9R4D9](#)

Cytogenetics: 7p12.2

Summary: This gene encodes a transcription factor that belongs to the family of zinc-finger DNA-binding proteins associated with chromatin remodeling. The expression of this protein is restricted to the fetal and adult hemo-lymphopoietic system, and it functions as a regulator of lymphocyte differentiation. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. Most isoforms share a common C-terminal domain, which contains two zinc finger motifs that are required for hetero- or homo-dimerization, and for interactions with other proteins. The isoforms, however, differ in the number of N-terminal zinc finger motifs that bind DNA and in nuclear localization signal presence, resulting in members with and without DNA-binding properties. Only a few isoforms contain the requisite three or more N-terminal zinc motifs that confer high affinity binding to a specific core DNA sequence element in the promoters of target genes. The non-DNA-binding isoforms are largely found in the cytoplasm, and are thought to function as dominant-negative factors. Overexpression of some dominant-negative isoforms have been associated with B-cell malignancies, such as acute lymphoblastic leukemia (ALL). [provided by RefSeq, May 2014]

Protein Families: Druggable Genome, Transcription Factors

Product images:



Coomassie blue staining of purified IKZF1 protein (Cat# [TP313207]). The protein was produced from HEK293T cells transfected with IKZF1 cDNA clone (Cat# [RC213207]) using MegaTran 2.0 (Cat# [TT210002]).