

Recombinant Human IKZF1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IKZF1-2552H Lot. No. (See product label)

SPECIFICATION

Product Overview

IKZF1 MS Standard C13 and N15-labeled recombinant protein (NP_006051) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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).

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Molecular Mass	57.3 kDa
AA Sequence	MDADEGQDMSQVSGKESPPVSDTPDEGDEPMPIPEDLSTTSGGQQSSKSDRVVAS NVKVETQSDEENGRACEMNGEECAEDLRMLDASGEKMNGSHRDQGSSALSGVGG IRLPNGKCLKDICGIIICIGPNVLMVHKRSHTGERPFQCNQCGASFTQKGNLLRHIKLH SGEKPFKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYCGRSYKQRSSLEEHER CHNYLESMGLPGTLYPVIKEETNHSEMAEDLCKIGSERSLVLDRLASNVAKRKSSMP QKFLGDKGLSDTPYDSSASYEKENEMMKSHVMDQAINNAINYLGAESLRPLVQTPP GGSEVVPVISPMYQLHKPLAEGTPRSNHSQAQDSAVENLLLLSKAKLVPSEREASPSN SCQDSTDTESNNEEQRSGLIYLTNHIAPHARNGLSLKEEHRAVDLLRAASENSQDAL RVVSTSGEQMKVYKCEHCRVFLDHVMTIHMGCCHGFRDPFECNMCGYHSQDRY EFSSHITRGEHRFHMSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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

Gene Name	IKZF1 IKAROS family zinc finger 1 [Homo sapiens (human)]
Official Symbol	IKZF1
Synonyms	IKZF1; IKAROS family zinc finger 1 (Ikaros); zinc finger protein, subfamily 1A, 1

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(Ikaros), ZNFN1A1; DNA-binding protein Ikaros; hlk 1; Hs.54452; IKAROS; LyF 1; CLL-associated antigen KW-6; Ikaros (zinc finger protein); ikaros family zinc finger protein 1; lymphoid transcription factor LyF-1; zinc finger protein, subfamily 1A, 1 (Ikaros); IK1; LYF1; hlk-1; PRO0758; ZNFN1A1;

Gene ID 10320

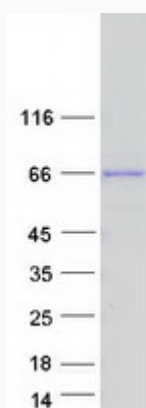
mRNA Refseq NM_006060

Protein Refseq NP_006051

MIM 603023

UniProt ID Q13422

SDS-PAGE



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