

ARG65038 anti-IKZF1 / Ikaros antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes IKZF1 / Ikaros
Tested Reactivity	Hu
Predict Reactivity	Cow, Dog
Tested Application	IHC-P
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	IKZF1 / Ikaros
Species	Human
Immunogen	C-DTPYDSSASYEKEN
Conjugation	Un-conjugated
Alternate Names	IK1; Hs.54452; LYF1; PPP1R92; LyF-1; Lymphoid transcription factor LyF-1; IKAROS; Ikaros family zinc finger protein 1; DNA-binding protein Ikaros; PRO0758; ZNFN1A1

Application Instructions

Application table	Application	Dilution
	IHC-P	2 - 4 µg/ml

Application Note
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0)
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 10320 Human](#)

[Swiss-port # Q13422 Human](#)

Background

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. All isoforms share a common C-terminal domain, which contains two zinc finger motifs that are required for hetero- or homodimerization, and for interactions with other proteins. The isoforms, however, differ in the number of N-terminal zinc finger motifs that bind DNA and contain the nuclear localization signal, resulting in members with and without DNA-binding properties. Only 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 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 2011]

Research Area

Cancer antibody; Cell Death antibody; Gene Regulation antibody

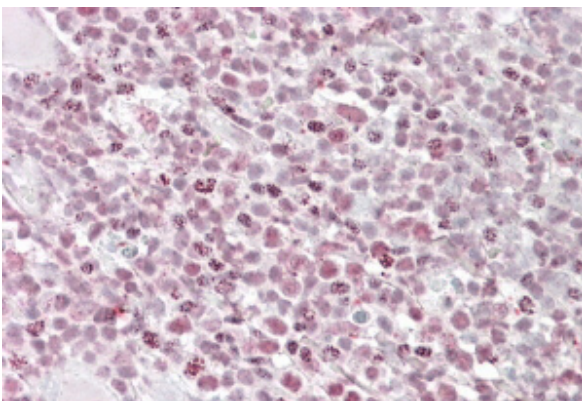
Calculated Mw

58 kDa

PTM

Phosphorylation controls cell-cycle progression from late G(1) stage to S stage. Hyperphosphorylated during G2/M phase. Dephosphorylated state during late G(1) phase. Phosphorylation on Thr-140 is required for DNA and pericentromeric location during mitosis. CK2 is the main kinase, in vitro. GSK3 and CDK may also contribute to phosphorylation of the C-terminal serine and threonine residues. Phosphorylation on these C-terminal residues reduces the DNA-binding ability. Phosphorylation/dephosphorylation events on Ser-13 and Ser-295 regulate TDT expression during thymocyte differentiation. Dephosphorylation by protein phosphatase 1 regulates stability and pericentromeric heterochromatin location. Phosphorylated in both lymphoid and non-lymphoid tissues (By similarity). Phosphorylation at Ser-361 and Ser-364 downstream of SYK induces nuclear translocation. Sumoylated. Simultaneous sumoylation on the 2 sites results in a loss of both HDAC-dependent and HDAC-independent repression. Has no effect on pericentromeric heterochromatin location. Desumoylated by SENP1 (By similarity). Polyubiquitinated.

Images



ARG65038 anti-IKZF1 / Ikaros antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human Tonsil. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG65038 anti-IKZF1 / Ikaros antibody at 3.8 µg/ml dilution followed by AP-staining.