

Ikaros Monoclonal Antibody

Catalog No :	YM1052
Reactivity :	Human;Mouse;Dog
Applications :	WB
Target :	Ikaros
Gene Name :	IKZF1
Protein Name :	DNA-binding protein Ikaros
Human Gene Id :	10320
Human Swiss Prot No :	Q13422
Mouse Swiss Prot No :	Q03267
Immunogen :	Purified recombinant human Ikaros (C-terminus) protein fragments expressed in E.coli.
Specificity :	Ikaros Monoclonal Antibody detects endogenous levels of Ikaros protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	58kD

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. 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

Function :

function: Binds and activates the enhancer (delta-A element) of the CD3-delta gene. Functions in the specification and the maturation of the T-lymphocyte. Also interacts with a critical control element in the TDT (terminal deoxynucleotidyltransferase) promoter as well as with the promoters for other genes expressed during early stages of B- and T-cell development., similarity: Belongs to the Ikaros C2H2-type zinc-finger protein family., similarity: Contains 6 C2H2-type zinc fingers., subunit: Interacts with IKZF4 AND IKZF5., tissue specificity: Abundantly expressed in thymus, spleen and peripheral blood Leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.,

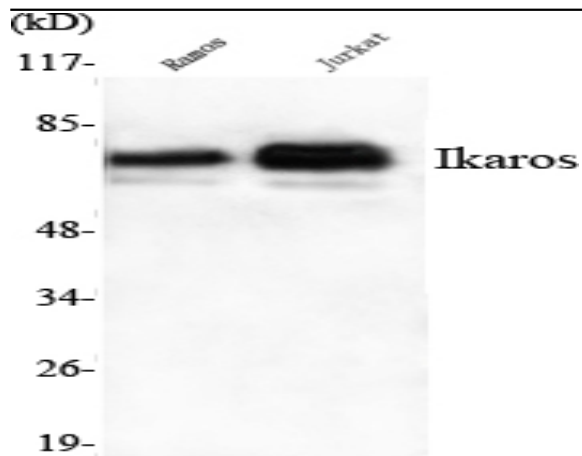
Subcellular Location :

Nucleus . In resting lymphocytes, distributed diffusely throughout the nucleus. Localizes to pericentromeric heterochromatin in proliferating cells. This localization requires DNA binding which is regulated by phosphorylation / dephosphorylation events. .; [Isoform Ik2]: Nucleus. In resting lymphocytes, distributed diffusely throughout the nucleus. Localizes to pericentromeric heterochromatin in proliferating cells. This localization requires DNA binding which is regulated by phosphorylation / dephosphorylation events (By similarity). .; [Isoform Ik6]: Cytoplasm .

Expression :

Abundantly expressed in thymus, spleen and peripheral blood Leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.

Products Images



Western Blot analysis using Ikaros Monoclonal Antibody against Ramos, Jurkat cell lysate.