

## Ikaros Monoclonal Antibody

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

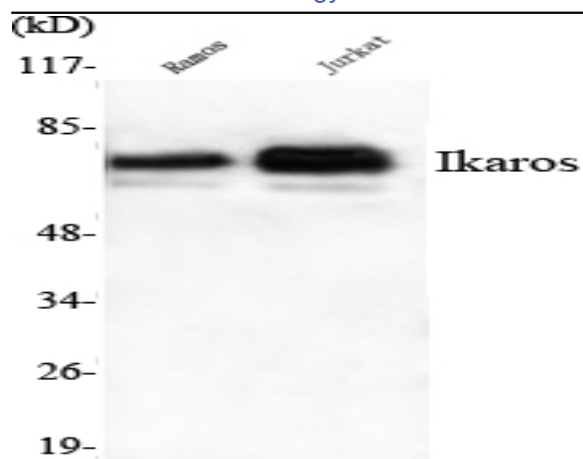
**Subcellular Location :**

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.