

# **Ikaros Antibody**

Rabbit mAb Catalog # AP91761

#### **Product Information**

**Application** WB, IHC, FC **Primary Accession** Q13422

Reactivity Rat, Human, Mouse

**Clonality** Monoclonal

Other Names hIk 1; IK1; IKAROS; Ikzf1; LYF1; ZNFN1A1;

IsotypeRabbit IgGHostRabbitCalculated MW57528

### **Additional Information**

**Dilution** WB 1:1000~1:5000 IHC 1:100~1:500 FC 1:60

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from human Ikaros

**Description** Transcription regulator of hematopoietic cell differentiation

(PubMed:17934067). Binds gamma-satellite DNA (PubMed:17135265, PubMed:19141594). Plays a role in the development of lymphocytes, B- and

T-cells.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

#### **Protein Information**

Name IKZF1

**Synonyms** IK1, IKAROS, LYF1, ZNFN1A1

**Function** Transcription regulator of hematopoietic cell differentiation

(PubMed:<u>17934067</u>). Binds gamma-satellite DNA (PubMed:<u>17135265</u>, PubMed:<u>19141594</u>). Plays a role in the development of lymphocytes, B- and T-cells. Binds and activates the enhancer (delta-A element) of the CD3-delta gene. Repressor of the TDT (fikzfterminal deoxynucleotidyltransferase) gene during thymocyte differentiation. Regulates transcription through association with both HDAC-dependent and HDAC-independent complexes. Targets the 2 chromatin-remodeling complexes, NuRD and BAF (SWI/SNF), in a single complex (PYR complex), to the beta-globin locus in adult erythrocytes. Increases normal apoptosis in adult erythroid cells. Confers early temporal competence to retinal progenitor cells (RPCs) (By similarity). Function is isoform-specific and is modulated by dominant-negative inactive isoforms

(PubMed: 17135265, PubMed: 17934067).

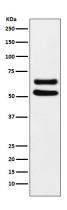
#### **Cellular Location**

Nucleus. Note=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 Ik6]: Cytoplasm.

#### **Tissue Location**

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

## **Images**



Western blot analysis of Ikaros expression in MOLT4 cell lysate.

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