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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;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	57528

Additional Information

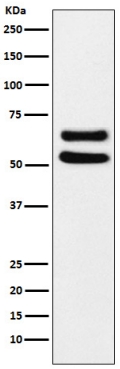
Dilution	WB 1:1000~1:5000 IHC 1:100~1:500 FC 1:60
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Ikaros
Description	Transcription regulator of hematopoietic cell differentiation (PubMed:17934067). Binds gamma-satellite DNA (PubMed:17135265, PubMed:19141594). Plays 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:17934067). Binds gamma-satellite DNA (PubMed:17135265, PubMed:19141594). 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 (PubMed:10204490). Increases normal apoptosis in adult erythroid cells (By similarity). 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).

	Recognized by CRBN and is targeted for degradation by DCX (DDB1-CUL4-X-box) E3 protein ligase complex (PubMed:41565821).
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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.