

Rabbit IKZF1 Polyclonal Antibody | anti-IKZF1 antibody

IKZF1 Antibody

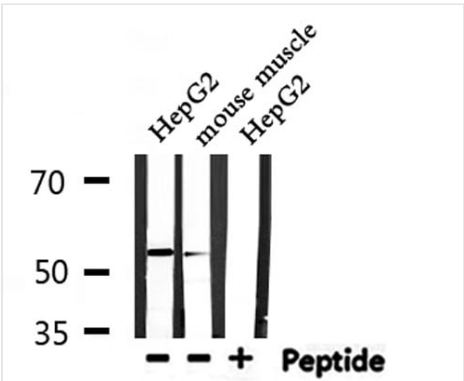
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326424	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

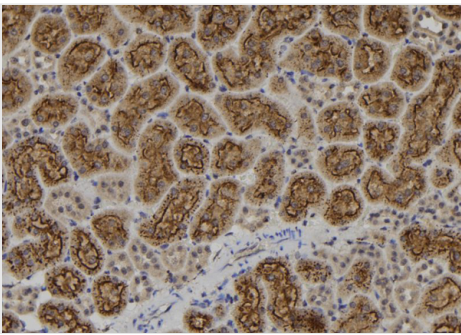
IKZF1; Polyclonal Antibody; IKZF1 Antibody; CLL associated antigen KW 6; DNA-binding protein Ikaros; hlk 1; Hs.54452; IK1; Ikaros (zinc finger protein); IKAROS; IKAROS family zinc finger 1 (Ikaros); Ikaros family zinc finger protein 1; Ikzf1; IKZF1_HUMAN; LYF1; Lymphoid transcription factor LyF-1; PRO0758; Zinc finger protein subfamily 1A 1 (Ikaros); Zinc finger protein subfamily 1A 1; Zinc finger protein; subfamily 1A; member 1; ZNFN1A1; anti-IKZF1 antibody

PRODUCT SPECIFICATIONS

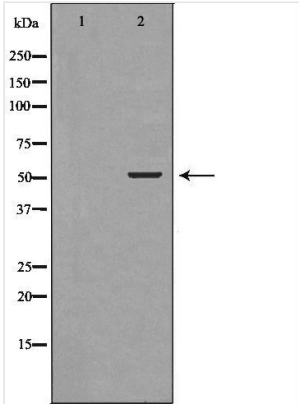
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	IKZF1 antibody detects endogenous levels of total IKZF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	477
Applicable Applications for anti-IKZF1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human IKZF1
Subcellular Location	Cytoplasm; 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 and 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).
Tissue Specificity	Abundantly expressed in thymus, spleen and peripheral blood Leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.
Predicted Cross Reactivity	Pig, Horse, Rabbit, Dog
Similarity	Pig (92%), Horse (92%), Rabbit (85%), Dog (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from HepG2, mouse muscle, using IKZF1 Antibody.



IHC (Immunohiostchemistry)
AAA326424 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of BT474, using IKZF1antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-IKZF1 antibody	Description: Ikaros family proteins, characterized by the presence of an N-terminal zinc finger DNA-binding domain and a C-terminal dimerization domain, belong to the Kruppel transcription factor superfamily. The Ikaros family includes Ikaros, Aiolos, Helios, and possibly EOS and Pegasus (1). They can form homodimers and heterodimers with other members of the Ikaros family. Due to differential splicing, multiple isoforms can be generated and some behave in a dominant negative manner upon dimerization (2).Ikaros, also known as Ikaros family zinc finger protein 1 (IKZF1) and Lymphoid transcription factor 1 (LYF-1), is expressed abundantly in blood cells. Genetic studies in mice demonstrate that Ikaros is important for the normal development of B, T, natural killer, and dendritic cells, and that it functions as a tumor suppressor (3, 4). Research studies have shown that imbalanced expression of different Ikaros isoforms, as well as deletions of Ikaros are associated with hematologic malignancies in humans (5-7). 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. 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). Subunit Structure: Heterodimer formed by the various isoforms; this modulates transcription regulator activity (PubMed:17135265, PubMed:17934067). Heterodimer with other IKAROS family members. Interacts with IKZF4 AND IKZF5 (PubMed:10978333). Component of the chromatin-remodeling NuRD repressor complex which includes at least HDAC1, HDAC2, RBBP4, RBBP7, IKZF1, MTA2, MBD2, MBD3, MTA1L1, CHD3 and CHD4. Interacts directly with the CHD4 component of the NuRD complex. Interacts directly with SMARCA4; the interaction associates IKFZ1 with the BAF complex (PubMed:10204490). Interacts with SUMO1; the interaction sumoylates IKAROS, promoted by PIAS2 and PIAS3. Interacts with PIAS2 (isoform alpha); the interaction promotes sumoylation and reduces transcription repression. Interacts, to a lesser extent, with PIAS3. Interacts with PPP1CC; the interaction targets PPP1CC to pericentromeric heterochromatin, dephosphorylates IKAROS, stabilizes it and prevents it from degradation. Interacts with IKZF3 (By similarity). Post-translational Modifications: Phosphorylation controls cell-cycle progression from late G1 stage to S stage. Hyperphosphorylated during G2/M phase. Dephosphorylated state during late G1 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. Similarity: The N-terminal zinc-fingers 2 and 3 are required for DNA binding as well as for targeting IKFZ1 to pericentromeric heterochromatin.The C-terminal zinc-finger domain is required for dimerization. Belongs to the Ikaros C2H2-type zinc-finger protein family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	334085209
NCBI GeneID	10320
NCBI Accession #	NP_001207694.1
NCBI GenBank Nucleotide #	NM_001220765.2
UniProt Accession #	Q13422; O00598; Q53XL2; Q69BM4; Q8WVA3; A4D260; B4E0Z1; D3DVM5
Molecular Weight	Observed: 53 kDa Predicted: 58 kDa
NCBI Official Full Name	DNA-binding protein Ikaros isoform 2
NCBI Official Synonym Full Names	IKAROS family zinc finger 1
NCBI Official Symbol	IKZF1

NCBI Official Synonym Symbols	IK1; LYF1; LyF-1; CVID13; IKAROS; PPP1R92; PRO0758; ZNFN1A1; Hs.54452
NCBI Protein Information	DNA-binding protein Ikaros
UniProt Protein Name	DNA-binding protein Ikaros
UniProt Gene Name	IKZF1
UniProt Synonym Gene Names	IK1; IKAROS; LYF1; ZNFN1A1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ikzf1-antibody-immunohistochemistry-western-blot-elisa/326424>