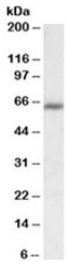
IKZF1 Antibody (R33661)

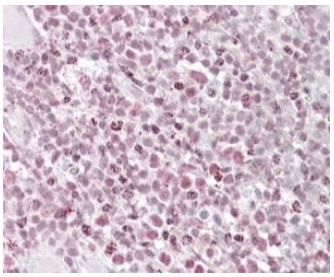
Catalog No.	Formulation	Size
R33661-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Dog, Cow
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	10320
Localization	Nuclear
Applications	Western blot: 1-3ug/ml Immunohistochemistry (FFPE): 2.5-5ug/ml ELISA (peptide) LOD: 1:1000
Limitations	This IKZF1 antibody is available for research use only.



Western blot testing of MOLT4 lysate with IKZF1 antibody at 1ug/ml. Expected molecular weight: ~65/55kDa (isoforms 1/2). (Ref 1)



IKZF1 Antibody Human Tonsil AP-IHC. Immunohistochemical staining of FFPE human tonsil tissue using IKZF1 Antibody demonstrates prominent nuclear AP-red staining within subsets of lymphoid cells. The staining pattern is consistent with expression of IKZF1 (Ikaros Family Zinc Finger 1), a DNA-binding transcription factor that functions as a master regulator of lymphoid development, hematopoietic differentiation, and immune cell lineage commitment. Strong nuclear immunoreactivity is expected for this transcriptional regulator and highlights its essential role in controlling gene expression programs required for normal lymphocyte maturation and immune system function. HIER: steamed in pH 6 citrate buffer prior to staining. Detection was performed using an alkaline phosphatase (AP) chromogenic method.

Description

IKZF1 Antibody recognizes IKZF1 (Ikaros Family Zinc Finger 1), a zinc finger DNA-binding transcription factor that functions as a master regulator of hematopoietic and lymphoid development. IKZF1 belongs to the Ikaros family of transcription factors and controls gene expression programs required for lineage commitment, cellular differentiation, and maturation of immune cell populations. Through its ability to regulate chromatin structure and transcriptional activity, IKZF1 plays an essential role in establishing normal hematopoietic function and maintaining immune system homeostasis. Because of its central importance in lymphocyte biology, IKZF1 has become a widely studied marker in immunology, hematology, and cancer research.

IKZF1 Antibody is commonly used for investigating hematopoietic stem cells, lymphoid progenitors, and developing immune cell populations. Expression of IKZF1 is closely associated with the formation and maturation of B cells, T cells, and other lymphoid lineages. The protein functions as both a transcriptional activator and repressor, coordinating complex developmental pathways that regulate immune cell identity and function. Proper IKZF1 activity is required for normal immune system development, while dysregulation can disrupt differentiation programs and contribute to disease.

IKZF1 Antibody is also valuable for studies of transcriptional regulation and chromatin remodeling. IKZF1 interacts with chromatin-remodeling complexes and helps establish gene expression patterns that govern cellular differentiation and lineage specification. By integrating developmental signals with transcriptional control mechanisms, IKZF1 coordinates the expression of genes involved in proliferation, maturation, and immune cell function. These activities place IKZF1 at the center of molecular pathways that regulate hematopoietic development and immune system formation.

IKZF1 Antibody has significant relevance in leukemia and lymphoma research. Genetic alterations involving IKZF1, including deletions, mutations, and abnormal expression patterns, have been associated with several hematologic malignancies, particularly acute lymphoblastic leukemia (ALL). Loss of normal IKZF1 function can impair differentiation and promote malignant transformation, making the protein an important biomarker for studies of leukemia pathogenesis, prognosis, and therapeutic response. Consequently, IKZF1 is frequently evaluated in both basic and translational cancer research.

IKZF1 Antibody supports research involving lymphocyte development, hematopoiesis, immune regulation, chromatin remodeling, transcriptional control, leukemia, lymphoma, and stem cell biology. As a critical regulator of lymphoid lineage commitment and immune cell differentiation, IKZF1 remains an important target for understanding both normal hematopoietic development and disease-associated alterations in gene regulation.

Researchers studying lymphoid development, hematopoietic differentiation, and immune cell lineage commitment may also be interested in our IKZF1 Antibody / Lymphoid Development Transcription Factor Antibody.

Application Notes

Optimal dilution of the IKZF1 antibody should be determined by the researcher.

Immunogen

Amino acids DTPYDSSASYEKEN were used as the immunogen for this IKZF1 antibody.

Storage

Aliquot and store the IKZF1 antibody at -20oC.

References (1)

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