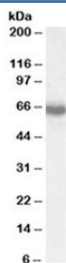


IKAROS Antibody (R33536)

Catalog No.	Formulation	Size
R33536-100UG	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	Mouse, Rat, Dog, Pig, 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 : 0.01-0.03ug/ml ELISA (peptide) LOD : 1:32000
Limitations	This IKAROS antibody is available for research use only.



IKAROS Antibody MOLT4 WB. Western blot analysis of MOLT4 cell lysate using IKAROS Antibody demonstrates a prominent immunoreactive band at approximately 55–65 kDa, consistent with the expected molecular weight range of IKZF1 (Ikaros) isoforms 1 and 2. Ikaros is a zinc finger transcription factor that functions as a master regulator of lymphoid development, hematopoietic differentiation, and immune cell lineage commitment. The observed banding pattern is consistent with expression of endogenous IKZF1 isoforms in lymphoid-derived cells and supports the utility of this antibody for western blot detection of Ikaros. Predicted molecular weights: ~65 kDa and ~55 kDa (isoforms 1 and 2).

Description

IKAROS Antibody recognizes IKZF1 (Ikaros), a zinc finger DNA-binding transcription factor that serves as a master regulator of hematopoietic and lymphoid development. Ikaros belongs to the Ikaros family of transcription factors and

controls gene expression programs required for the differentiation, maturation, and function of multiple immune cell lineages. Through its ability to regulate chromatin organization and transcriptional activity, Ikaros plays a critical role in establishing normal immune system development and maintaining hematopoietic homeostasis. Because of its central role in lymphocyte biology, Ikaros has become one of the most extensively studied transcription factors in immunology and hematology research.

IKAROS Antibody is widely used for investigating lymphocyte development and hematopoietic differentiation. Expression of Ikaros is closely associated with hematopoietic stem cells, lymphoid progenitors, and developing B- and T-cell populations. The protein functions as both a transcriptional activator and repressor, coordinating complex developmental pathways that guide immune cell lineage commitment and maturation. Proper Ikaros activity is essential for normal immune system formation, while disruption of its function can impair lymphocyte development and alter immune regulation.

IKAROS Antibody is also valuable for studies of transcriptional regulation and chromatin remodeling. Ikaros proteins interact with chromatin-remodeling complexes and help establish gene expression patterns that control cellular differentiation and lineage specification. By coordinating the activation and repression of developmental genes, Ikaros integrates extracellular signaling pathways with nuclear transcriptional programs that govern immune cell identity and function.

IKAROS Antibody has significant relevance in leukemia and lymphoma research. Alterations in IKZF1 expression, deletion, mutation, or alternative splicing have been associated with multiple hematologic malignancies, particularly acute lymphoblastic leukemia (ALL). Loss of normal Ikaros function can disrupt differentiation pathways and contribute to malignant transformation, making IKZF1 an important biomarker in studies of leukemia pathogenesis, prognosis, and therapeutic response. Consequently, Ikaros continues to attract significant interest in both basic and translational cancer research.

IKAROS Antibody supports research involving hematopoiesis, lymphocyte development, immune system formation, transcriptional regulation, chromatin remodeling, leukemia, lymphoma, and stem cell biology. As a master regulator of lymphoid lineage commitment and immune cell differentiation, Ikaros remains an essential target for understanding the molecular mechanisms that govern both normal hematopoietic development and hematologic disease.

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 IKAROS antibody should be determined by the researcher.

Immunogen

Amino acids DLLRAASENSQDALR were used as the immunogen for this IKAROS antibody.

Storage

Aliquot and store the IKAROS antibody at -20°C.

References (1)

