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IKZF1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10222B

Specification

IKZF1 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q13422
Other Accession	NP_006051.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**415-444**

IKZF1 Antibody (C-term) - Additional Information

Gene ID 10320

Other Names
DNA-binding protein Ikaros, Ikaros family zinc finger protein 1, Lymphoid transcription factor LyF-1, IKZF1, IK1, IKAROS, LYF1, ZNFN1A1

Target/Specificity
This IKZF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 415-444 amino acids from the C-terminal region of human IKZF1.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
IKZF1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IKZF1 Antibody (C-term) - 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. 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.

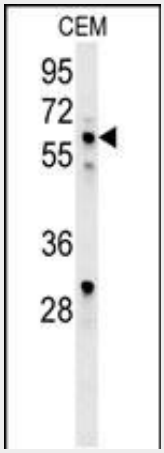
Tissue Location
Abundantly expressed in thymus, spleen and peripheral blood Leukocytes and lymph nodes. Lower expression in bone marrow and small intestine.

IKZF1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

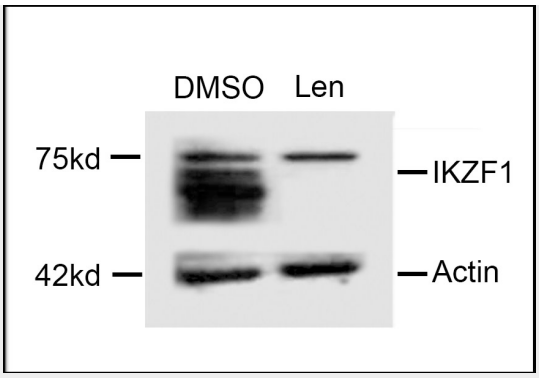
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IKZF1 Antibody (C-term) - Images

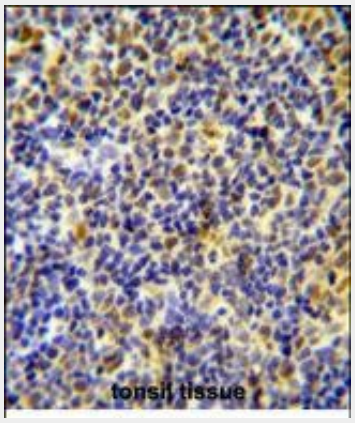


IKZF1 Antibody (C-term) (Cat. #AP10222b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the IKZF1 antibody detected the IKZF1 protein (arrow).

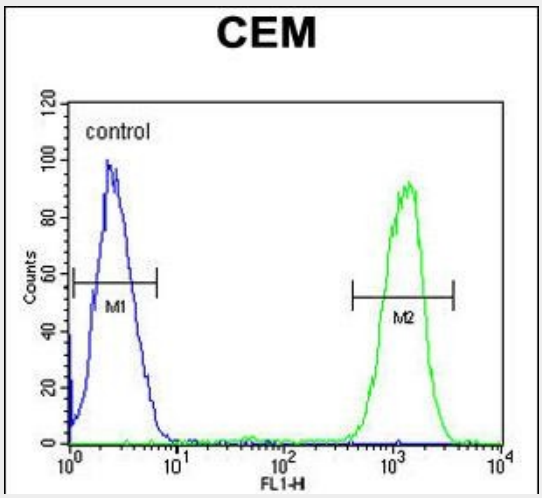
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Western blot analysis of extracts from MM cells, treated with DMSO or lenalidomide, using rabbit polyclonal IKZF1 Antibody (C-term) (Cat. #AP10222b).



IKZF1 Antibody (C-term) (Cat. #AP10222b) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IKZF1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



IKZF1 Antibody (C-term) (Cat. #AP10222b) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IKZF1 Antibody (C-term) - References

He, C.F., et al. Lupus 19(10):1181-1186(2010)
Yang, L., et al. Oncol. Rep. 24(2):571-577(2010)

Jager, R., et al. Leukemia 24(7):1290-1298(2010)
Kuiper, R.P., et al. Leukemia 24(7):1258-1264(2010)
Matulic, M., et al. Coll Antropol 34(1):59-62(2010)

IKZF1 Antibody (C-term) - Citations

- Activation of c-Abl kinase potentiates the anti-myeloma drug lenalidomide by promoting DDA1 recruitment to the CRL4 ubiquitin ligase.