For Research Use Only

IRF8 Polyclonal antibody

Catalog Number:24437-1-AP

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Basic Information

Catalog Number:
24437-1-AP

Size:
150ul , Concentration: 750 ug/ml by Nanodrop and 340 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG19909

GenBank Accession Number:
BC126247

GeneID (NCBI):
3394

UNIPROT ID:
Q02556

Full Name:
ICSBP1

Calculated MW:
426 aa, 48 kDa

Observed MW:
50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : Raji cells,

Background Information

IRFs comprise a family of transcription factors that function within the Jak/Stat pathway to regulate IFN and IFN-inducible gene expression in response to viral infection. IRFs predominantly express in lymphoid tissues and play an important role in pathogen defense, autoimmunity, lymphocyte development, cell growth, and susceptibility to transformation. The IRF family includes nine members: IRF-1, IRF-2, ISGF3γ /p48, IRF-3, IRF-4 (Pip/LSIRF/ICSAT), IRF-5, IRF-6, IRF-7, and IRF-8/ICSBP. All IRF proteins share homology in their amino-terminal DNA-binding domains. IRF family members regulate transcription through interactions with proteins that share similar DNA-binding motifs, such as IFN-stimulated response elements (ISRE), IFN consensus sequences (ICS), and IFN regulatory elements (IRF-E). IRF-8/ICSCP is expressed predominately in hematopoietic cells and is further increased upon treatment with IFN (2111015,1460054). IRF-8 can function as a transcription repressor of ICS-containing promoters (1460054). Expression of IRF-8 can lead to the down-regulation of the anti-apoptotic protein Bcl-2 (14656881). Originally described as being induced by IFN-γ , IRF-8 expression is also elevated by IRF-α as well as IL-12 in NK and T cells (14581002). IRF-8 deficient mice have enhanced susceptibility to various pathogens and impaired production of IFNs, as well as deregulated hematopoiesis that resembles chronic myelogenous leukemia (9120398). IRF-8 also regulates bone metabolism by suppressing osteoclast formation (19718038).This antibody specifically recognizes the 48kd IRF8 protein.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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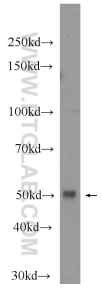
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Raji cells were subjected to SDS PAGE followed by western blot with 24437-1-AP (IRF8 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.