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# IRF8 Antibody (Center)
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP2830c**

## Specification

### IRF8 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, FC,E** |
| Primary Accession | Q02556 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **48356** |
| Antigen Region | **241-269** |

### IRF8 Antibody (Center) - Additional Information

**Gene ID** 3394

**Other Names**
Interferon regulatory factor 8, IRF-8, Interferon consensus sequence-binding protein, H-ICSBP, ICSBP, IRF8, ICSBP1

**Target/Specificity**
This IRF8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 241-269 amino acids from the Central region of human IRF8.

**Dilution**
WB~~1:1000
FC~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**
IRF8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### IRF8 Antibody (Center) - Protein Information

**Name** IRF8 {ECO:0000303|PubMed:21524210, ECO:0000312|HGNC:HGNC:5358}

**Function** Transcription factor that specifically binds to the upstream regulatory region of type I

interferon (IFN) and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) (PubMed:25122610). Can both act as a transcriptional activator or repressor (By similarity). Plays a negative regulatory role in cells of the immune system (By similarity). Involved in CD8(+) dendritic cell differentiation by forming a complex with the BATF-JUNB heterodimer in immune cells, leading to recognition of AICE sequence (5'-TGAnTCA/GAAA- 3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF8 and activation of genes (By similarity). Required for the development of plasmacytoid dendritic cells (pDCs), which produce most of the type I IFN in response to viral infection (By similarity). Positively regulates macroautophagy in dendritic cells (PubMed:29434592). Acts as a transcriptional repressor of osteoclast differentiation factors such as NFATC1 and EEIG1 (By similarity).

**Cellular Location**
Nucleus. Cytoplasm Note=In resting macrophages, localizes in the cytoplasm. Translocated in the nucleus upon IFN-gamma induction.

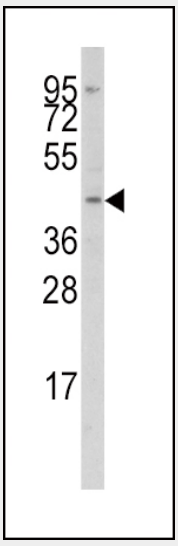
**Tissue Location**
Predominantly expressed in lymphoid tissues.

## IRF8 Antibody (Center) - 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

## IRF8 Antibody (Center) - Images




Western blot analysis of anti-IRF8 Antibody (Center) (Cat.#AP2830c) in Jurkat cell line lysates (35ug/lane). IRF8 (arrow) was detected using the purified Pab.

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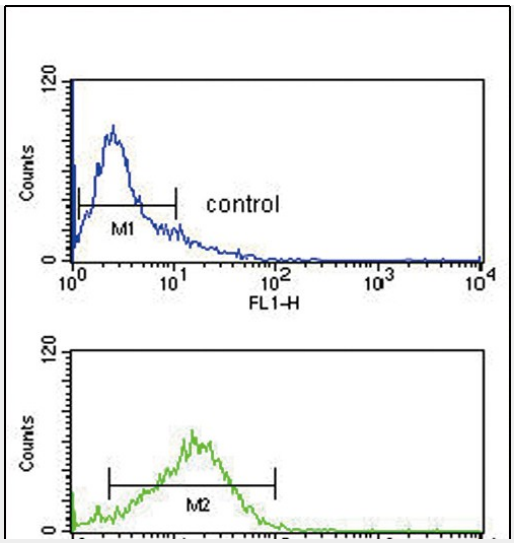


IRF8 Antibody (Center) (Cat. #AP2830c) flow cytometry analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

**IRF8 Antibody (Center) - Background**

Interferon consensus sequence-binding protein (ICSBP) is a transcription factor of the interferon (IFN) regulatory factor (IRF) family. Proteins of this family are composed of a conserved DNA-binding domain in the N-terminal region and a divergent C-terminal region that serves as the regulatory domain. The IRF family proteins bind to the IFN-stimulated response element (ISRE) and regulate expression of genes stimulated by type I IFNs, namely IFN-alpha and IFN-beta. IRF family proteins also control expression of IFN-alpha and IFN-beta-regulated genes that are induced by viral infection.

**IRF8 Antibody (Center) - References**

McGough,J.M., Mol. Cancer Res. 6 (12), 1841-1851 (2008)
Tshuikina,M., Exp. Hematol. 36 (12), 1673-1681 (2008)
Martinez,A., Am. J. Surg. Pathol. 32 (8), 1190-1200 (2008)