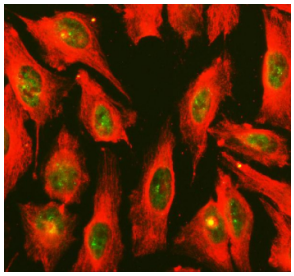
IRF8 Antibody / Interferon regulatory factor 8 (R31333)

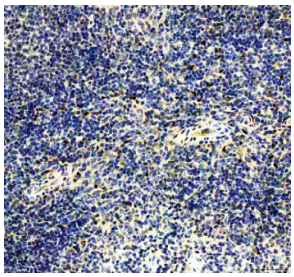
Catalog No.	Formulation	Size
R31333	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

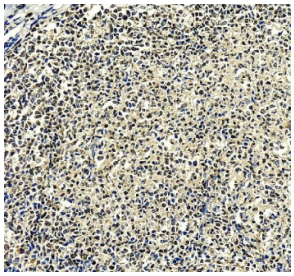
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q02556
Localization	Cytoplasmic, Nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This IRF8 antibody is available for research use only.



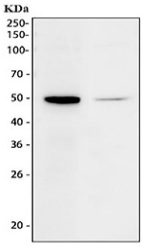
Immunofluorescent staining of FFPE human U-2 OS cells with IRF8 antibody (green) and Alpha Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE mouse spleen tissue with IRF8 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with IRF8 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human ThP-1 and 2) mosue spleen tissue lysate with IRF8 antibody. Predicted molecular weight ~48 kDa.

Description

IRF8 (Interferon regulatory factor 8) is a transcription factor belonging to the IRF family, which plays an essential role in regulating immune system development and function. It is predominantly expressed in hematopoietic cells, including monocytes, dendritic cells, and B cells, where it controls gene expression in response to interferon signaling and other immune-related pathways. IRF8 is critical for the differentiation of specific immune cell subsets, particularly dendritic cells and macrophages.

By binding to interferon-stimulated response elements (ISREs) in the promoters of target genes, IRF8 modulates the expression of key regulators involved in innate and adaptive immunity. Its expression is tightly regulated and context-dependent, ensuring precise immune responses while preventing unwanted inflammation. Due to its role in immune cell biology, IRF8 is widely studied in the context of host defense, cell differentiation, and transcriptional regulation.

The **IRF8 antibody** is an important reagent for detecting IRF8 in applications such as western blot, immunohistochemistry, and flow cytometry. Researchers use the IRF8 antibody from NSJ Bioreagents to investigate immune cell development, analyze transcriptional networks, and monitor expression patterns across various hematopoietic lineages. With strong specificity and consistent performance, the IRF8 antibody supports advanced research in immunology, molecular biology, and gene regulation.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the IRF8 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Interferon regulatory factor 8 (ASHQRSFFRENQQITV) was used as the immunogen for this IRF8 antibody.

Storage

After reconstitution, the IRF8 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.