

Product datasheet

Anti-IRF8 antibody [EPR20441] ab207418

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [6 References](#) [6 Images](#)

Overview

Product name	Anti-IRF8 antibody [EPR20441]
Description	Rabbit monoclonal [EPR20441] to IRF8
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: THP-1 and Raji whole cell lysates; Human fetal spleen, tonsil and colon lysates. IHC-P: Human tonsil and non-hodgkin's lymphoma tissues. IP: Raji whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20441
Isotype	IgG

Applications

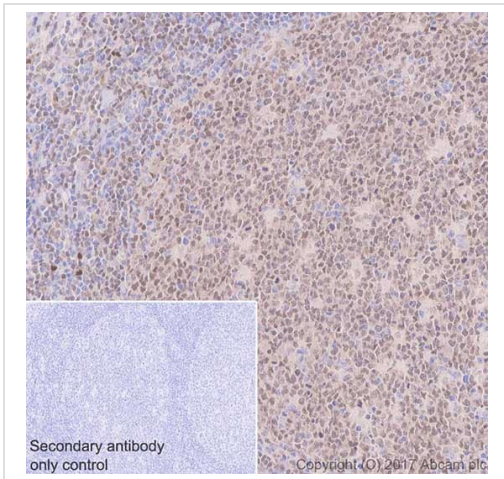
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab207418 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).
IP		1/40.
IHC-P	★★★★★ (1)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Specifically binds to the upstream regulatory region of type I IFN and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)). Plays a negative regulatory role in cells of the immune system.
Tissue specificity	Predominantly in lymphoid tissues.
Sequence similarities	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
Post-translational modifications	Ubiquitinated. Ubiquitination by TRIM21 in macrophages, a process that is strongly increased upon interferon gamma stimulation, leads to the enhanced transcriptional activity of target cytokine genes.
Cellular localization	Nucleus.

Images



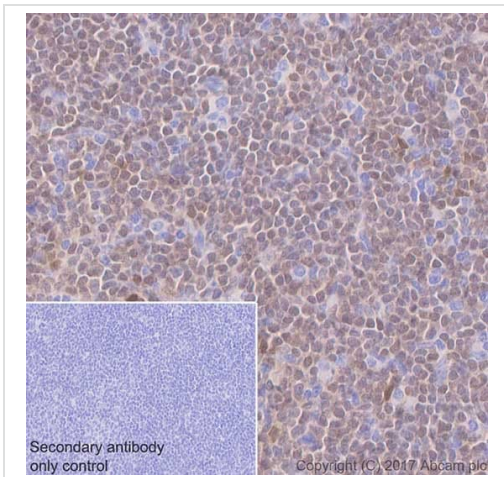
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF8 antibody [EPR20441] (ab207418)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling IRF8 with ab207418 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on human tonsil ($\times 200$) [PMID: 18663414] [PMID: 16380510].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



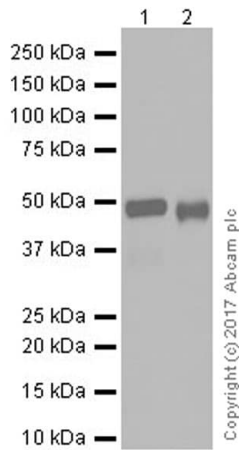
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF8 antibody [EPR20441] (ab207418)

Immunohistochemical analysis of paraffin-embedded human non-hodgkin's lymphoma tissue labeling IRF8 with ab207418 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Nuclear staining on human non-hodgkin's lymphoma.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-IRF8 antibody [EPR20441] (ab207418)

All lanes : Anti-IRF8 antibody [EPR20441] (ab207418) at 1/1000 dilution

Lane 1 : THP-1 (Human monocytic leukemia cell line) whole cell lysate

Lane 2 : Raji (Human Burkitt's lymphoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

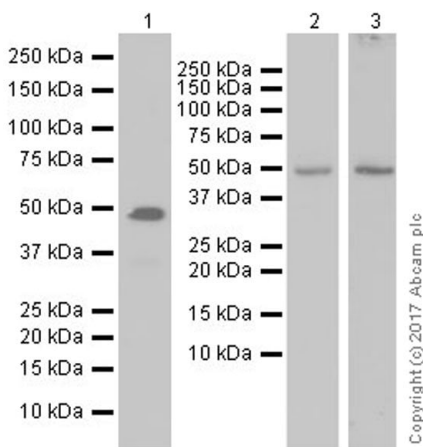
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 48 kDa

Observed band size: 48 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-IRF8 antibody [EPR20441] (ab207418)

All lanes : Anti-IRF8 antibody [EPR20441] (ab207418) at 1/1000 dilution

Lane 1 : Human fetal spleen lysate

Lane 2 : Human tonsil lysate

Lane 3 : Human colon lysate

Lysates/proteins at 10 µg per lane.

Secondary

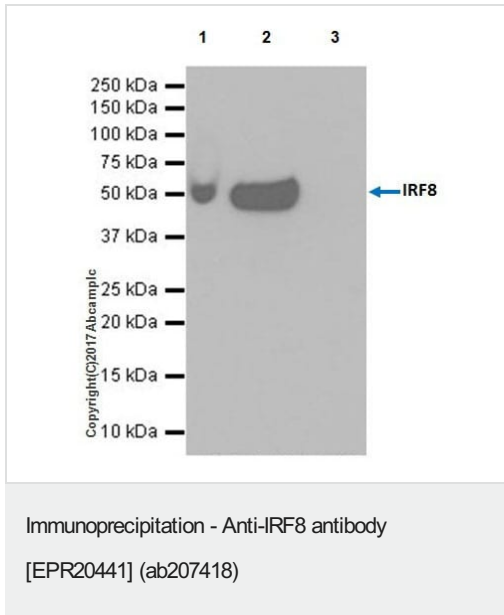
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution

Predicted band size: 48 kDa

Observed band size: 48 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 30 seconds; Lane 2: 2 seconds; Lane 3: 15 seconds.



IRF8 was immunoprecipitated from 0.35 mg of Raji (Human Burkitt's lymphoma cell line) whole cell lysate with ab207418 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab207418 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

Lane 1: Raji whole cell lysate 10 µg (Input).

Lane 2: ab207418 IP in Raji whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab207418 in Raji whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 1 second.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-IRF8 antibody [EPR20441] (ab207418)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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