

**Anti-IRF5 Picoband Antibody**  
**Catalog # ABO12332****Specification**

---

**Anti-IRF5 Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q13568</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Interferon regulatory factor 5(IRF5) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-IRF5 Picoband Antibody - Additional Information**

**Gene ID** 3663

**Other Names**

Interferon regulatory factor 5, IRF-5, IRF5

**Calculated MW**

56044 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm.

**Protein Name**

Interferon regulatory factor 5

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human IRF5 (442-472aa RLQISNPDLKDRMVEQFKELHHIWQSQQRLQ), different from the related mouse sequence by three amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-IRF5 Picoband Antibody - Protein Information**

**Name** IRF5 {ECO:0000303|PubMed:11303025, ECO:0000312|HGNC:HGNC:6120}

**Function**

Transcription factor that plays a critical role in innate immunity by activating expression of type I interferon (IFN) IFNA and IFNB and inflammatory cytokines downstream of endolysosomal toll-like receptors TLR7, TLR8 and TLR9 (PubMed: <a href="http://www.uniprot.org/citations/11303025" target="\_blank">11303025</a>, PubMed: <a href="http://www.uniprot.org/citations/15695821" target="\_blank">15695821</a>, PubMed: <a href="http://www.uniprot.org/citations/22412986" target="\_blank">22412986</a>, PubMed: <a href="http://www.uniprot.org/citations/25326418" target="\_blank">25326418</a>, PubMed: <a href="http://www.uniprot.org/citations/32433612" target="\_blank">32433612</a>). Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN- stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters (By similarity). Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction downstream of the TLR-activated, MyD88-dependent pathway (By similarity). Key transcription factor regulating the IFN response during SARS-CoV-2 infection (PubMed: <a href="http://www.uniprot.org/citations/33440148" target="\_blank">33440148</a>).

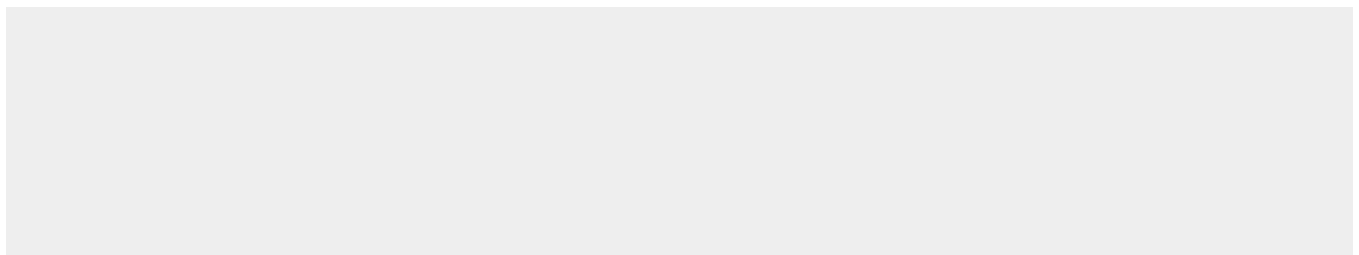
**Cellular Location**

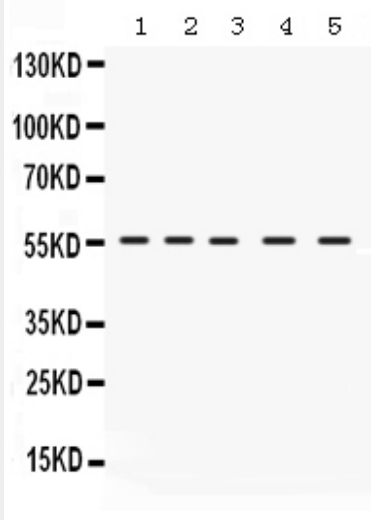
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm: upon activation by the TLR adapter MYD88 and subsequent phosphorylation, translocates to the nucleus

**Anti-IRF5 Picoband Antibody - Protocols**

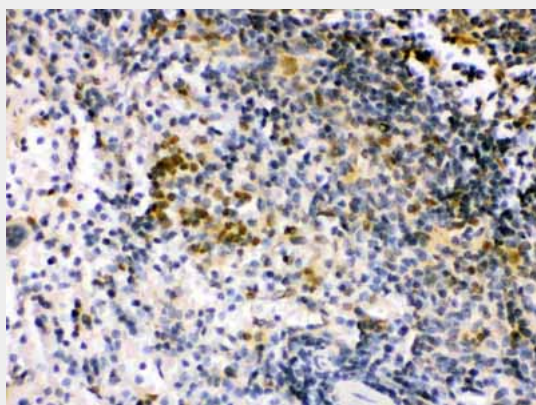
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

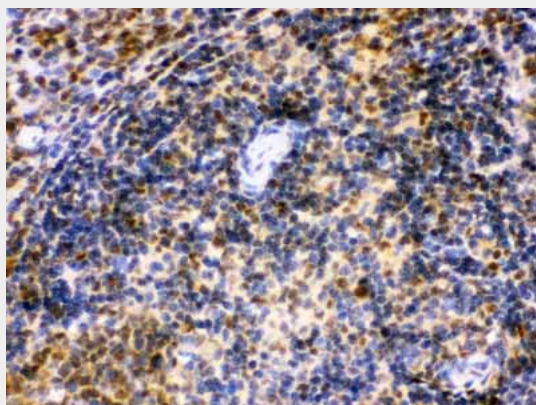
**Anti-IRF5 Picoband Antibody - Images**



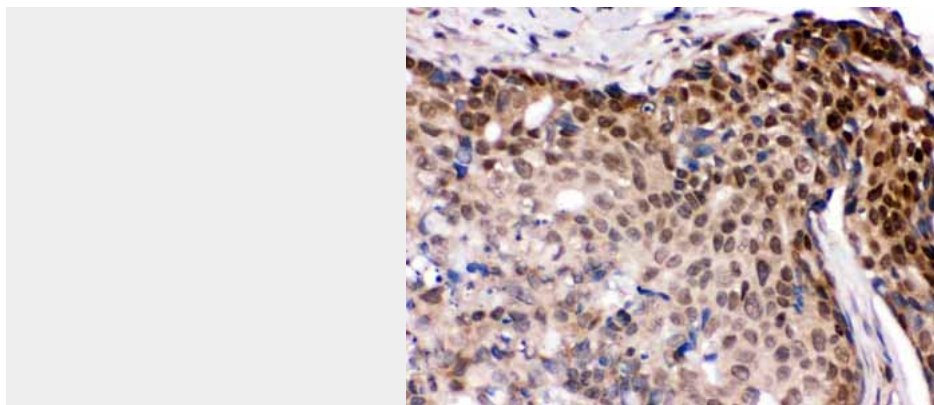
Anti- IRF5 Picoband antibody, ABO12332, Western blottingAll lanes: Anti IRF5 (ABO12332) at 0.5ug/mlLane 1: Rat Intestine Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: NIH3T3 Whole Cell Lysate at 40ugLane 5: HEPA Whole Cell Lysate at 40ugPredicted bind size: 56KDObserved bind size: 56KD



Anti- IRF5 Picoband antibody, ABO12332, IHC(P)IHC(P): Mouse Spleen Tissue



Anti- IRF5 Picoband antibody, ABO12332, IHC(P)IHC(P): Rat Spleen Tissue



Anti- IRF5 Picoband antibody, ABO12332, IHC(P)IHC(P): Human Mammary Cancer Tissue

#### **Anti-IRF5 Picoband Antibody - Background**

Interferon regulatory factor 5, also called IRF5 or SLEB10, is a protein that in humans is encoded by the IRF5 gene. IRF5 gene is mapped to 7q32.1. This gene encodes a member of the interferon regulatory factor (IRF) family, a group of transcription factors with diverse roles, including virus-mediated activation of interferon, and modulation of cell growth, differentiation, apoptosis, and immune system activity. Members of the IRF family are characterized by a conserved N-terminal DNA-binding domain containing tryptophan (W) repeats. Multiple transcript variants encoding different isoforms have been found for this gene, and a 30-nt indel polymorphism (SNP rs60344245) can result in loss of a 10-aa segment. This gene is a transcription factor involved in the induction of interferons IFNA and INFB and inflammatory cytokines upon virus infection.