

# Anti-IRF5 Antibody [SD203-07]

## ET1612-15



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Tissue, IHC-P, IP
<b>Molecular Wt:</b>	Predicted band size: 56 kDa
<b>Clone number:</b>	SD203-07

**Description:** Interferon regulatory factor 5 (IRF-5), belongs to the IRF family of DNA-binding factors, which includes IRF-1, IRF-2, IRF-3, IRF-4, IRF-6, IRF-7, ISGF-3γ p48 and IFN consensus sequence-binding protein (ICSBP). The IRF family regulate both interferon and interferon-inducible genes. IRF-5, like IRF-3 and IRF-7, is a direct transducer of virus-mediated signaling and plays a role in the expression of multiple cytokines/chemokines. Although IRF-5 is a direct target of p53, its cell cycle regulatory and proapoptotic effects are p53 independent.

**Immunogen:** Recombinant protein within human IRF5 aa 1-200.

**Positive control:** THP-1 cell lysate, U-937 cell lysate, A20 cell lysate, Rat spleen tissue lysate, mouse spleen tissue, rat spleen tissue, human spleen tissue.

**Subcellular location:** Nucleus, Cytoplasm.

**Database links:** SwissProt: Q13568 Human | P56477 Mouse  
Unigene: 203787 Rat

### Recommended Dilutions:

<b>WB</b>	1:500-1:2,000
<b>IF-Tissue</b>	1:50-1:200
<b>IHC-P</b>	1:50-1:200
<b>IP</b>	Use at an assay dependent concentration.

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

**Purity:** Protein A affinity purified.

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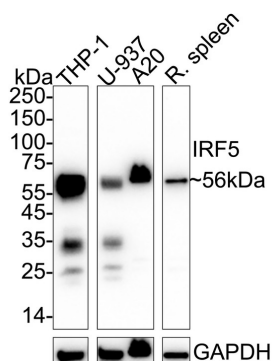
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## Images



**Fig1:** Western blot analysis of IRF5 on different lysates with Rabbit anti-IRF5 antibody (ET1612-15) at 1/1,000 dilution.

Lane 1: THP-1 cell lysate (30 µg/Lane)

Lane 2: U-937 cell lysate (30 µg/Lane)

Lane 3: A20 cell lysate (30 µg/Lane)

Lane 4: Rat spleen tissue lysate (30 µg/Lane)

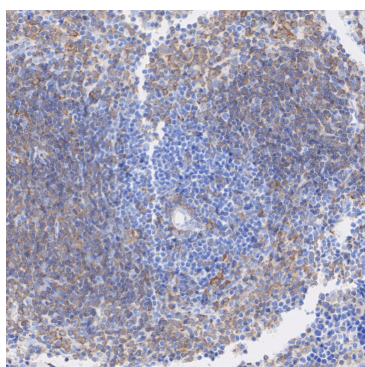
Predicted band size: 56 kDa

Observed band size: 56 kDa

Exposure time: 30 seconds; ECL: K1801;

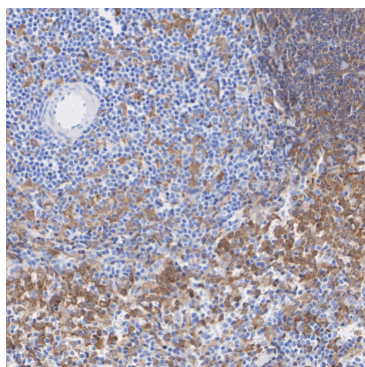
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ET1612-15) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Rabbit anti-IRF5 antibody (ET1612-15) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1612-15) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig3:** Immunohistochemical analysis of paraffin-embedded rat spleen tissue with Rabbit anti-IRF5 antibody (ET1612-15) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1612-15) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

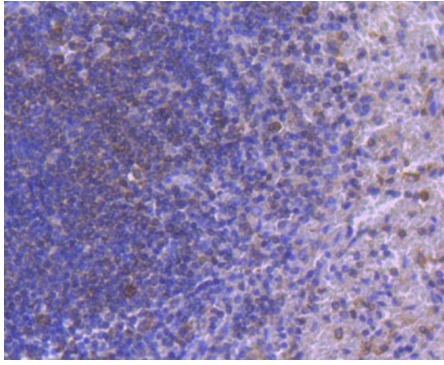
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**Fig4:** Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IRF5 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1612-15, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. O'Carroll C et al. Identification of a unique hybrid macrophage-polarization state following recovery from lipopolysaccharide tolerance. *J Immunol* 192:427-36 (2014).
2. Chionh YT et al. Protease-activated receptor 1 suppresses *Helicobacter pylori* gastritis via the inhibition of macrophage cytokine secretion and interferon regulatory factor 5. *Mucosal Immunol* 8(1):1399:1412 (2014).

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