

# Anti-Phospho-IRF3 (S396) Antibody [PSH06-75] - BSA and Azide free

## HA751121



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Cell, FC
<b>Molecular Wt:</b>	Predicted band size: 47 kDa
<b>Clone number:</b>	PSH06-75

**Description:** Interferon regulatory factor 3, also known as IRF3, is an interferon regulatory factor. IRF3 is a member of the interferon regulatory transcription factor (IRF) family. IRF3 was originally discovered as a homolog of IRF1 and IRF2. IRF3 has been further characterized and shown to contain several functional domains including a nuclear export signal, a DNA-binding domain, a C-terminal IRF association domain and several regulatory phosphorylation sites. IRF3 is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. The complex translocates into the nucleus for the transcriptional activation of interferons alpha and beta, and further interferon-induced genes.

**Immunogen:** Synthetic phospho-peptide corresponding to residues surrounding Ser396 of human IRF3.

**Positive control:** HT-29 transfected with 2.5µg/mL Poly(I:C) for 6 hours cell lysate, J774A.1 transfected with 2.5µg/mL Poly(I:C) for 6 hours cell lysate, human testis tissue, HT-29 cells transfected with 2.5µg/mL Poly(I:C) for 6 hours.

**Subcellular location:** Cytoplasm, Nucleus, Mitochondrion.

**Database links:** SwissProt: Q14653 Human | P70671 Mouse  
Entrez Gene: 292892 Rat

### Recommended Dilutions:

<b>WB</b>	1:1,000
<b>IHC-P</b>	1:200
<b>IF-Cell</b>	1:100
<b>FC</b>	1:1,000

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

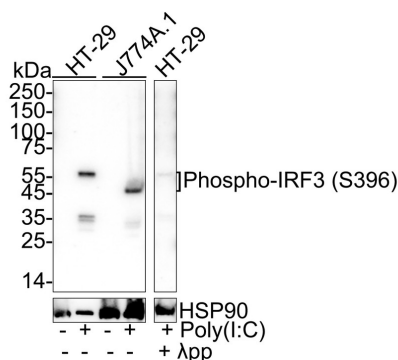
Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images



**Fig1:** Western blot analysis of Phospho-IRF3 (S396) on different lysates with Rabbit anti-Phospho-IRF3 (S396) antibody (HA751121) at 1/1,000 dilution.

Lane 1: HT-29 untransfected cell lysate

Lane 2: HT-29 transfected with 2.5µg/mL Poly(I:C) for 6 hours cell lysate

Lane 3: J774A.1 untransfected cell lysate

Lane 4: J774A.1 transfected with 2.5µg/mL Poly(I:C) for 6 hours cell lysate

Lane 5: HT-29 transfected with 2.5µg/mL Poly(I:C) for 6 hours cell lysate, then the membrane treated with λpp for 1 hour

Lysates/proteins at 20 µg/Lane.

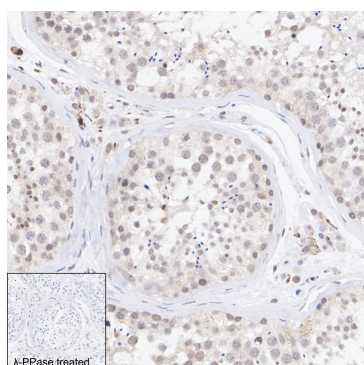
Predicted band size: 47 kDa

Observed band size: 47-55 kDa

Exposure time: 12 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 (HA751121) 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 human testis tissue untreated / treated with λpp with Rabbit anti-Phospho-IRF3 (S396) antibody (HA751121) 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 (HA751121) 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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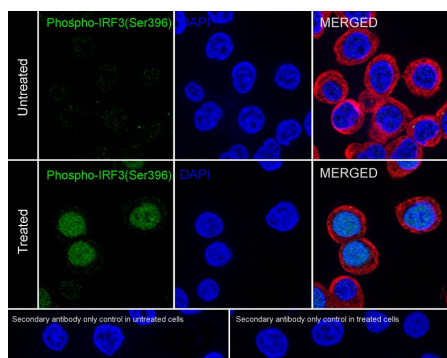
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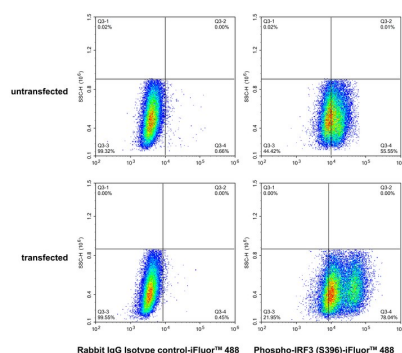
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**Fig3:** Immunocytochemistry analysis of untreated HT-29 cells (top) / HT-29 cells transfected with 2.5µg/mL Poly(I:C) for 6 hours (bottom) labeling Phospho-IRF3 (S396) with Rabbit anti-Phospho-IRF3 (S396) antibody (HA751121) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-IRF3 (S396) antibody (HA751121) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.



**Fig4:** Flow cytometric analysis of untreated HT-29 cells (top) / HT-29 cells transfected with 2.5µg/mL Poly(I:C) for 6 hours (bottom) labeling Phospho-IRF3 (S396).

Cells were fixed and permeabilized. Then stained with the primary antibody (HA751121, 1/1,000) (right) compared with Rabbit IgG Isotype Control (left). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 °C.

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

## Background References

1. Al Hamrashdi M et al. Regulation of IRF3 activation in human antiviral signaling pathways. *Biochem Pharmacol.* 2022 Jun
2. Yan S et al. IRF3 reduces adipose thermogenesis via ISG15-mediated reprogramming of glycolysis. *J Clin Invest.* 2021 Apr

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