Anti-Phospho-IRF3 (S386) Antibody [SU03-28] - BSA and Azide free

HA750138

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IF-Tissue
Molecular Wt:	Predicted band size: 47 kDa
Clone number:	SU03-28

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 Ser386 of human IRF3.

Positive control: MCF7 treated with 100nM Calyculin A for 30 minutes whole cell lysate, MCF-7.

Subcellular location: Cytoplasm, Nucleus, Mitochondrion.

Database links: SwissProt: Q14653 Human

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:50-1:200
IF-Tissue	1:50-1:200

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

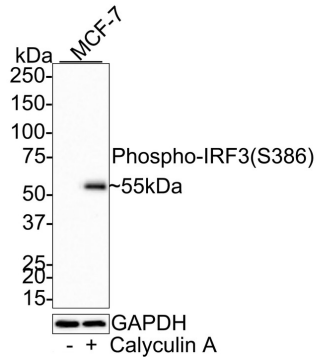

Fig1: Western blot analysis of Phospho-IRF3 (S386) on different lysates with Rabbit anti-Phospho-IRF3 (S386) antibody (HA750138) at 1/1,000 dilution.

Lane 1: MCF7 whole cell lysate
Lane 2: MCF7 treated with 100nM Calyculin A for 30 minutes whole cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 47 kDa
Observed band size: 55 kDa

Exposure time: 5 minutes;

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 (HA750138) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

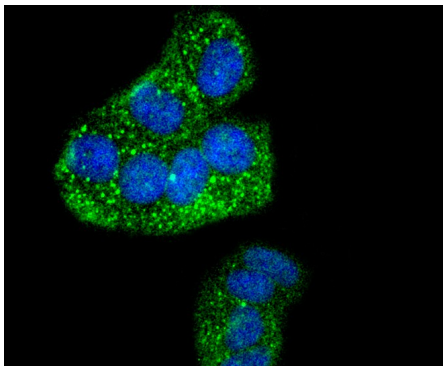

Fig2: ICC staining of Phospho-IRF3 (S386) in MCF-7 cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (HA750138, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor®488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).

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