

## Anti-Interferon regulatory factor 9/IRF9 Antibody Picoband™

Catalog Number: A04485

### About IRF9

Interferon regulatory factor 9 is a protein that in humans is encoded by the IRF9 gene, previously known as ISGF3G. It is mapped to 14q1. IRF9 is a 48 kDa member of the IRF family of proteins. It is widely expressed, and serves as a component of the ISGF3 complex. In addition, IRF9 is an interferon-dependent, positive-acting transcription factor that is cytoplasmically activated, possibly through direct interaction with the interferon receptor. It associates with activated STAT1 and STAT2 to form an ISGF3 complex that is translocated into the nucleus.

### Overview

Product Name	Anti-Interferon regulatory factor 9/IRF9 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Interferon regulatory factor 9/IRF9 Antibody Picoband™ catalog # A04485. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q00978

### Technical Details

Immunogen	E. coli-derived human IRF9 recombinant protein (Position: M1-K110). Human IRF9 shares 87.3% amino acid (aa) sequence identity with mouse IRF9.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml, Human

## Anti-Interferon regulatory factor 9/IRF9 Antibody Picoband™ (A04485) Images

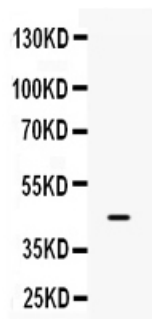


Figure 1. Western blot analysis of IRF9 using anti-IRF9 antibody (A04485).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

lane 1: JURKAT cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IRF9 antigen affinity purified polyclonal antibody (Catalog # A04485) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IRF9 at approximately 44KD. The expected band size for IRF9 is at 44KD.

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