10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-IRF9 Picoband Antibody

Catalog # ABO10307

Product Information

Application	WB
Primary Accession	Q00978
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Interferon regulatory factor 9 (IRF9) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10379
Other Names	Interferon regulatory factor 9, IRF-9, IFN-alpha-responsive transcription factor subunit, ISGF3 p48 subunit, Interferon-stimulated gene factor 3 gamma, ISGF-3 gamma, Transcriptional regulator ISGF3 subunit gamma, IRF9, ISGF3G
Calculated MW	43696
Application Details	Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Cytoplasm . Nucleus . Translocated into the nucleus upon activation by IFN-alpha/beta.
Source	Eukaryota
Protein Name	Interferon regulatory factor 9
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived human IRF9 recombinant protein (Position: M1-K110). Human IRF9 shares 87.3% amino acid (aa) sequence identity with mouse IRF9.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20˚C for one year. After r˚Constitution, 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.

Protein Information

Name	IRF9
Synonyms	ISGF3G
Function	Transcription factor that plays an essential role in anti- viral immunity. It mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. IRF9/ISGF3G associates with the phosphorylated STAT1:STAT2 dimer to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state.
Cellular Location	Cytoplasm. Nucleus Note=Translocated into the nucleus upon activation by IFN-alpha/beta

Background

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.

Images

Western blot analysis of IRF9 expression in U87 whole cell lysates (lane 1). IRF9 at 44KD was detected using rabbit anti- IRF9 Antigen Affinity purified polyclonal antibody (Catalog # ABO10307) at 0.5 □¼g/mL. The blot was developed using chemiluminescence (ECL) method .