

Anti-MUM1/IRF4 Antibody Picoband®

Catalog Number: PB9222

About IRF4

Interferon regulatory factor 4 (IRF4), also known as MUM1, is a protein that in humans is encoded by the IRF4 gene. It is located on 6p25.3. IRF4 is a transcription factor, and it is essential for the development of T helper-2 (Th2) cells, IL17 -producing Th17 cells, and IL9 -producing Th9 cells. In melanocytic cells, the IRF4 gene may be regulated by MITF. IRF4 is a transcription factor that has been implicated in acute leukemia. This gene is strongly associated with pigmentation, sensitivity of skin to sun exposure, freckles, blue eyes, and brown hair color. What's more, IRF4 inhibition is toxic to myeloma cell lines, regardless of transforming oncogenic mechanism.

Overview

Product Name	Anti-MUM1/IRF4 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-MUM1/IRF4 Antibody Picoband® catalog # PB9222. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	Q15306

Technical Details

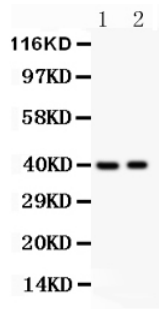
Immunogen	E.coli-derived human MUM1 recombinant protein (Position: E272-E451). Human MUM1 shares 92% amino acid (aa) sequence identity with mouse MUM1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

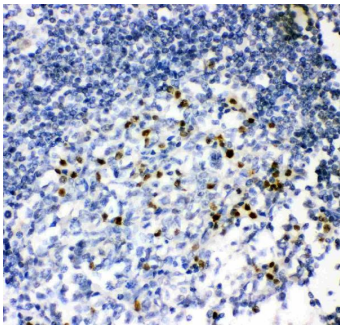
Anti-MUM1/IRF4 Antibody Picoband® (PB9222) Images



Anti-MUM1 antibody, PB9222, Western blotting
All lanes: Anti MUM1 (PB9222) at 0.5ug/ml
WB: Recombinant Human MUM1 Protein 0.5ng
Predicted bind size: 38KD
Observed bind size: 38KD



Anti-MUM1 antibody, PB9222, Western blotting
All lanes: Anti MUM1 (PB9222) at 0.5ug/ml
Lane 1: HELA Whole Cell Lysate at 40ug
Lane 2: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 51KD
Observed bind size: 40KD



Anti-MUM1 antibody, PB9222, IHC(P)
IHC(P): Human Tonsil Tissue

1 Publications Citing This Product

1. PubMed ID: 10.3892/or.2016.4562, TIPE2, a negative regulator of TLR signaling, regulates p27 through IRF4-induced signaling

Visit bosterbio.com/anti-mum1-picoband-trade-antibody-pb9222-boster.html to see all 1 publications.

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Anti-MUM1/IRF4 Antibody

For Research Use Only. Not for use in diagnostic procedures.