

## 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.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 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	Q15306

### Technical Details

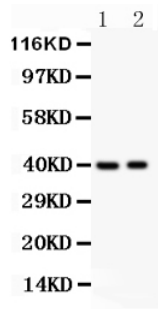
Immunogen	E.coli-derived human MUM1 recombinant protein (Position: E272-E451). Human MUM1 shares 92% amino acid (aa) sequence identity with mouse MUM1.
Predicted Reactive Species	Bovine, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit 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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

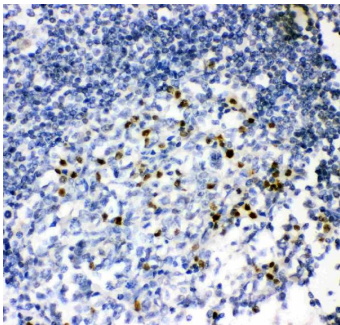
## Anti-MUM1/IRF4 Antibody Picoband™ (PB9222) Images



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](http://bosterbio.com/anti-mum1-picoband-trade-antibody-pb9222-boster.html) to see all 1 publications.

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