

Datasheet for ABIN3042469
anti-IRF4 antibody (AA 272-451)

3 Images

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Overview

Quantity:	100 µg
Target:	IRF4
Binding Specificity:	AA 272-451
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRF4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Interferon regulatory factor 4(IRF4) detection. Tested with WB, IHC-P in Human.
Immunogen:	E.coli-derived human MUM1 recombinant protein (Position: E272-E451). Human MUM1 shares 92% amino acid (aa) sequence identity with mouse MUM1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Interferon regulatory factor 4(IRF4) detection. Tested with WB, IHC-P in Human.</p> <p>Gene Name: interferon regulatory factor 4</p> <p>Protein Name: Interferon regulatory factor 4</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	IRF4
Alternative Name:	IRF4 (IRF4 Products)
Background:	<p>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.</p> <p>Synonyms: Interferon regulatory factor 4 antibody IRF 4 antibody IRF-4 antibody Irf4 antibody IRF4_HUMAN antibody LSIRF antibody Lymphocyte specific interferon regulatory factor antibody Lymphocyte specific IRF antibody Lymphocyte-specific interferon regulatory factor antibody Multiple myeloma oncogene 1 antibody MUM 1 antibody MUM1 antibody NFEM5 antibody NF-EM5 antibody NFEM5 antibody PU.1 interaction partner antibody Sfpi1/PU.1 interaction partner antibody Transcriptional activator PIP antibody</p>
Gene ID:	3662
UniProt:	Q15306
Pathways:	Chromatin Binding

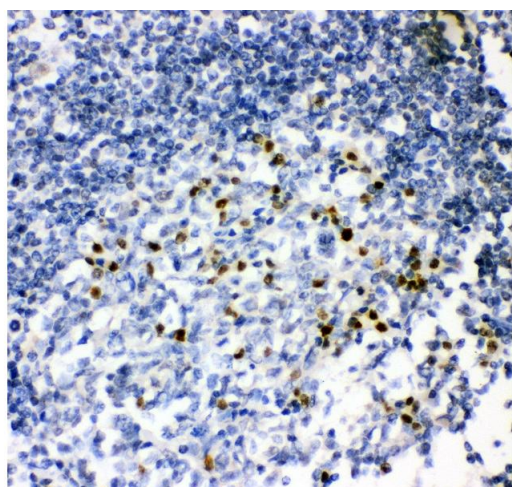
Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for MUM1 is approximately 0.2 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

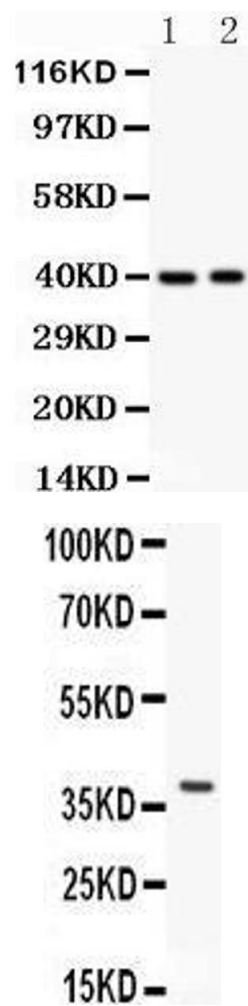
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, 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.

Images



Immunohistochemistry

Image 1. Anti- MUM1 antibody, IHC(P) IHC(P): Human Tonsil Tissue



Western Blotting

Image 2. Anti- MUM1 antibody, Western blotting All lanes: Anti MUM1 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

Western Blotting

Image 3. Anti- MUM1 antibody, Western blotting All lanes: Anti MUM1 at 0.5ug/ml WB: Recombinant Human MUM1 Protein 0.5ng Predicted bind size: 38KD Observed bind size: 38KD