

Human/Mouse IRF4 Catalytic Subunit Antibody

Monoclonal Mouse IgG_{2B} Clone # 503215

Catalog Number: MAB5525

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects endogenous human and mouse IRF4 in Western blots.	
Source	Monoclonal Mouse IgG _{2B} Clone # 503215	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human IRF4 Glu130-Glu451 Accession # Q15306	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.	

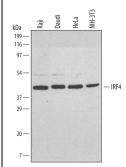
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

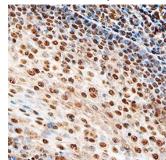
Data

Western Blot



Detection of Human/Mouse IRF4 Catalytic Subunit by Western Blot. Western blot shows nuclear extracts of Raji human Burkitt's lymphoma cell line, Daudi human Burkitt's lymphoma cell line, HeLa human cervical epithelial carcinoma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse IRF4 Catalytic Subunit Monoclonal Antibody (Catalog # MAB5525) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for IRF4 Catalytic Subunit at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 5.

Immunohistochemistry



IRF4 in Human Tonsil. IRF4 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human/Mouse IRF4 Catalytic Subunit Monoclonal Antibody (Catalog # MAB5525) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interferon Regulatory Factor 4 (IRF4), also known as MUM1 and LSIRF, is a 51 kDa lymphocyte-restricted transcription factor. It is required for immunoglobulin class switching and terminal differentiation of B cells. IRF4 is overexpressed in multiple myeloma and cooperates with Myc in an autoregulatory loop. In T cells, IRF4 is required for the production of IL-4. IRF4 contains an N-terminal DNA binding domain that is homologous to that in other IRF proteins. Within the C-terminal domain (aa 130-451), human IRF4 shares 90% aa sequence identity with mouse and rat IRF4. Alternate splicing may generate isoforms with N-terminal, C-terminal, or internal deletions.

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