

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IRF4 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 503202
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human IRF4 Glu130-Glu451 Accession # Q15306
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

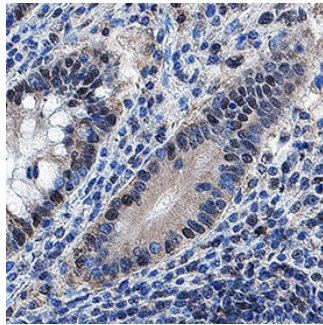
#### APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human intestine

#### DATA

##### Immunohistochemistry



**IRF4 in Human Intestine.** IRF4 was detected in immersion fixed paraffin-embedded sections of human intestine using Mouse Anti-Human IRF4 Monoclonal Antibody (Catalog # MAB55252) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell nuclei in intestinal glands. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.