**For Research Use Only**

**MUM1/IRF4 Polyclonal ANTIBODY**

**Catalog Number:** 11247-2-AP  
**2 Publications**

### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>BCO15752</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Purification Method:</td>
<td>Antigen affinity purification</td>
</tr>
<tr>
<td>Immunogen Catalog Number:</td>
<td>AG1762</td>
</tr>
</tbody>
</table>

**GenBank Accession Number:** BC015752  
**GeneID (NCBI):** 3662

**Recommended Dilutions:**
- WB: 1:500-1:2000
- IP: 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
- IHC: 1:50-1:500

### Applications

**Tested Applications:** FC, IHC, IP, WB, ELISA

**Cited Applications:** IHC, WB

**Species Specificity:** human, mouse

**Cited Species:** mouse

**Positive Controls:**
- WB: mouse spleen tissue, Jurkat cells, mouse lung tissue, mouse thymus tissue, Raji cells
- IP: mouse spleen tissue;
- IHC: human thymus tissue, human lymphoma tissue, human tonsillitis tissue

**Recommended Dilutions:**
- WB: 1:500-1:2000
- IP: 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
- IHC: 1:50-1:500

### Background Information

Interferon regulatory factor 4 (IRF4) is a member of the IRF family of transcription factors, expressed in most cell types of the immune system. IRF4 is a transcription factor essential for the development of TH2 cells, IL-17-producing Th17 cells, and IL-9-producing Th9 cells, as well as dendritic cell (DC). IRF4 binds to and activates the interferon-stimulated response element (ISRE) of the MHC class I promoter, and may have a role in ISRE-targeted signal transduction mechanisms specific to lymphoid cells.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aijun Jia</td>
<td>28808358</td>
<td>Mediators Inflamm</td>
<td>WB, IHC</td>
</tr>
<tr>
<td>Jie Dong</td>
<td>29338488</td>
<td>Nanotoxicology</td>
<td>WB</td>
</tr>
</tbody>
</table>

### Storage

**Storage:** Store at -20°C. Stable for one year after shipment.

**Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

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For technical support and original validation data for this product please contact:

- T: (888) 4PTGLAB (toll free in USA), or (312) 405-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Immunohistochemistry of paraffin-embedded human thymus tissue slide using 11247-2-AP (MUM1/IRF4 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH6).

Mouse spleen tissue were subjected to SDS-PAGE followed by western blot with 11247-2-AP (MUM1/IRF4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

1X10^6 Raji cells were stained with 0.2ug MUM1/IRF4 antibody (11247-2-AP, red) and control antibody (blue). Fixed with 4% PFA, blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.