Product datasheet

Anti-IRF7 antibody ab115352

Overview

Product name: Anti-IRF7 antibody
Description: Rabbit polyclonal to IRF7
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide conjugated to KLH, corresponding to 14 amino acids near the center of Human IRF7.
Positive control: Human Spleen tissue

Properties

Form: Liquid
Storage buffer: Preservative: 0.02% Sodium azide
Constituent: 99% PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab115352 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 54 kDa.</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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**Function**
Transcriptional activator. Binds to the interferon-stimulated response element (ISRE) in IFN promoters and in the Q promoter (Qp) of EBV nuclear antigen 1 (EBNA1). Functions as a molecular switch for antiviral activity. Activated by phosphorylation in response to infection. Activation leads to nuclear retention, DNA binding, and derepression of transactivation ability.

**Tissue specificity**
Expressed predominantly in spleen, thymus and peripheral blood leukocytes.

**Sequence similarities**
Belongs to the IRF family.
Contains 1 IRF tryptophan pentad repeat DNA-binding domain.

**Post-translational modifications**
In response to a viral infection, phosphorylated on the C-terminal serine cluster. Phosphorylation, and subsequent activation is inhibited by vaccinia virus protein E3. TRAF6-mediated ubiquitination is required for IRF7 activation.

**Cellular localization**
Nucleus. Cytoplasm. The phosphorylated and active form accumulates selectively in the nucleus.

**Images**

- ab115352, at 5 µg/ml, staining IRF7 in formalin-fixed, paraffin-embedded Human Spleen tissue by Immunohistochemistry, using a biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

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