

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human IRF1 in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse IRF1 is observed.                                                                                                                        |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human IRF1<br>Thr147-Pro325<br>Accession # P10914                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

IRF1 (interferon regulatory factor 1) is a 45 kDa member of the IRF family of proteins. It is induced by TLR9 and INF-γ stimulation, and positively regulates the expression of IFN-β, iNOS and 1L-12p35. Human IRF1 is 325 amino acids (aa) in length. It contains an N-terminal DNA-binding basic region (aa 1-140) and an acidic C-terminus (aa 147-325). Lys275 and 299 can be SUMOylated, which blocks activity, or ubiquitinated at Lys299, which initiates degradation. There is a splice variant that shows an 11 aa substitution for the C-terminal 86 amino acids. Over aa 171-325, human IRF1 shares 83% aa identity with both canine and porcine IRF1.

## PRODUCT SPECIFIC NOTICES

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