

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human IFN-alpha 2/IFNA2 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IFNE, rhIFNB, rhIFNG, or recombinant cotton rat IFNA is observed. In sandwich ELISAs, less than 8% cross-reactivity with rhIFNA-7, rhIFNA-8,                   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 967314                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Human embryonic kidney cell line HEK-293-derived transfected with human IFN-alpha 2/IFNA2<br>Met1-Glu188<br>Accession # P01563                                                                                                                                              |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 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.

**Immunocytochemistry** 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

Interferon-alpha 2 (IFNA2), also known as leukocyte interferon, is a type I interferon produced by macrophages, CD8 resting T cells, tonsillar NK cells, germinal center B cells, as well as epithelial cells, tumor cells and melanocytes. IFN alpha has at least nine different isoforms.

IFNA2 is a ligand for a cell surface receptor with two subunits, IFN-alpha R2 (ligand binding) and IFN-alpha R1 (ligand binding and signal transduction). IFNA2 has both antiviral and immunomodulatory activities on target cells. Intranasal administration has been shown to reduce viral load in subjects with the common cold. While IFNA2 is a prognostic factor for hepatocellular carcinoma, Interferon alpha 2b, has been used to treat melanoma, renal cell carcinoma, chronic myelogenous leukemia and hepatitis C.

## PRODUCT SPECIFIC NOTICES

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