

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human IFN-epsilon in direct ELISAs.                                                                                                                                                                                                                                 |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 995728                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human IFN-epsilon<br>Leu22-Arg208<br>Accession # Q86WN2                                                                                                                                                                                 |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Interferon-epsilon (IFNε) is a type I interferon with expression limited to the brain, lung, intestine and reproductive tract. It has been proposed that unlike other type I interferons, IFNε plays a role in mucosal immunity and protects against pathogens including chlamidia, HIV and herpes simplex virus 2. Its expression is upregulated by TNF alpha. Unlike other type-1 interferons, IFNε is also hormonally regulated, and mouse and human IFNε have been shown to have a binding site in their promoters for progesterone receptor. Epithelial cells isolated from uterine endometrium have higher IFNε expression in the proliferative phase, when estrogen levels are highest. IFNε is the only IFN isoform constitutively expressed in HeLa cells.

## PRODUCT SPECIFIC NOTICES

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