

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human IFN-κ in direct ELISAs.                                                                                                                                                                                                                                       |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 1009725                                                                                                                                                                                                                          |
| <b>Purification</b>       | Protein A or G purified from cell culture supernatant                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human IFN-κ<br>Leu28-Lys207<br>Accession # Q90W0                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 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.

**Immunohistochemistry** 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 kappa, also known as IFN-kappa, is a 207 aminoacids protein that in humans is encoded by the IFNK gene. IFN-kappa is a member of the type I interferon family which also includes IFN-alpha, -beta, -epsilon, and -omega. Type I interferons are a group of related glycoproteins that play an important role in host defenses against viral infections. Human IFN-kappa has been detected in keratinocytes, monocytes, and monocyte-derived dendritic cells and is reported to have contact-dependent antiviral activity. Human papillomavirus (HPV) 16 oncogene expression, which is necessary for the development of cervical cancer, has been shown to down-regulate human IFN-kappa expression.

## PRODUCT SPECIFIC NOTICES

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