

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IFN-epsilon in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 995728
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IFN-epsilon Leu22-Arg208 Accession # Q86WN2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

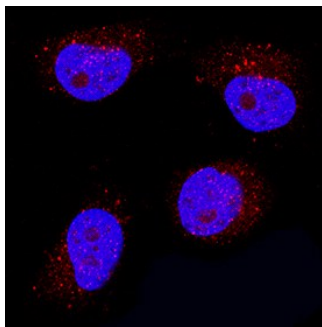
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



IFN-epsilon in HeLa Human Cell Line.
IFN-epsilon was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human IFN-epsilon Monoclonal Antibody (Catalog # MAB91472) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interferon-epsilon (IFNe) 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, IFNe 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, IFNe is also hormonally regulated, and mouse and human IFNe have been shown to have a binding site in their promoters for progesterone receptor. Epithelial cells isolated from uterine endometrium have higher IFNe expression in the proliferative phase, when estrogen levels are highest. IFNe is the only IFN isoform constitutively expressed in HeLa cells.