

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IFN- $\alpha$ 2a,4a,6,7,8,10,16, and 17 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 995514
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	HEK293 human embryonic kidney cell line transfected with human IFN- $\alpha$ 2 Met1-Glu188 Accession # P01563
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m 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 $\mu$ m filtered solution in PBS.

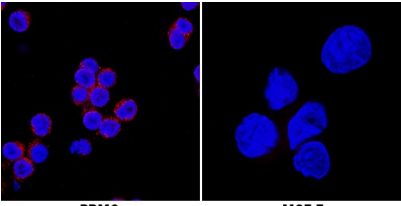
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunocytochemistry</b>	8-25 $\mu$ g/mL	See Below

**DATA**

**Immunocytochemistry**



**IFN- $\alpha$  in Human PBMCs and MCF-7 Human Cell Line.** IFN- $\alpha$  was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs; left panel, positive stain) and MCF-7 human breast cancer cell line (right panel, negative stain) using Mouse Anti-Human IFN- $\alpha$  Monoclonal Antibody (Catalog # MAB93454) at 8  $\mu$ g/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 Non-adherent Cells](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Interferon-alpha (IFN-alpha or IFN- $\alpha$ ), also known as leukocyte interferon, represents a group of related but distinct proteins that share over 95% amino acid sequence homology. They are members of the type I interferon family which share a common cell surface receptor composed of two subunits, a 100 kDa ligand-binding subunit (IFN-alpha R2) and a 125 kDa ligand binding and signal transduction subunit (IFN-alpha R1) that is involved both in ligand binding and signal transduction. Many IFN-alpha subtypes exist, IFN- $\alpha$ 1 to IFN- $\alpha$ 21. The major subtypes identified are IFN- $\alpha$ 1, IFN- $\alpha$ 2, IFN- $\alpha$ 8, IFN- $\alpha$ 10, IFN- $\alpha$ 14 and IFN- $\alpha$ 21. MAB93454 detects human IFN- $\alpha$ 2a,4a,6,7,8,10,16, and 17 in direct ELISA.