

DESCRIPTION

Species Reactivity	Human
Specificity	Human IFN- α R1, Type I, Subunit I phosphorylated at S535/S539
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide corresponding to amino acid residues surrounding the phospho-S535/S539 of IFN- α R1 Subunit I
Formulation	100 μ L in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ g/mL BSA and 50% glycerol. See Certificate of Analysis for details.

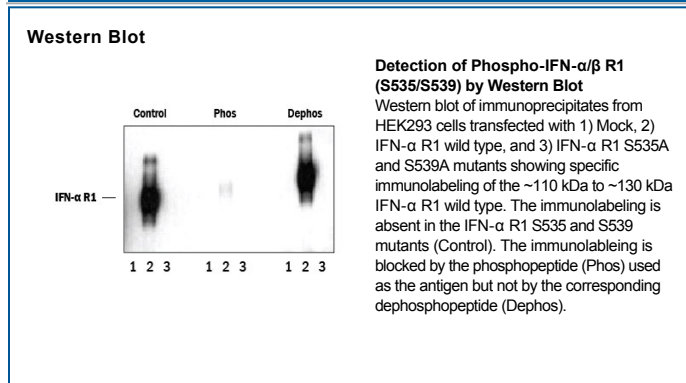
APPLICATIONS

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
Immunohistochemistry	1:1000 dilution	No Sample Info
Western Blot	1:1000 dilution	HEK293 human embryonic kidney cell line transfected with IFN- α R1

Note: The molecular weight of the IFN- α R1 varies with cell line (different levels of glycosylation) in HEK293 and HeLa cells; the mature form is ~110 - 130 kDa.

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	For long-term storage, $\leq -20^{\circ}$ C is recommended. Product is stable at $\leq -20^{\circ}$ C for at least 1 year.

BACKGROUND

Interferons are widely used therapeutic agents because of their anti tumor and antiviral effects and because of their modulatory effects on the immune system (1,2). These cytokines produce their effects by binding to the Type I IFN Receptor. This receptor contains two subunits; IFNAR1/ α 1 and IFNAR2/ α 2. Down regulation of this receptor plays a key role in determining the magnitude and duration of cytokine signaling. This downregulation is thought to be influenced by phosphorylation of S535 and S539 in IFN- α R1 (3).

References:

1. Biron, C.A. (2001) *Immunity* 14:661.
2. Kirkwood, J. (2002) *Semin. Oncol.* 29:18.
3. Kumar, K.G. et al. (2003) *EMBO J.* 22:5480.