



## **Polyclonal Anti-human IFN alpha2A <sup>HuXp</sup> Antibody**

### **Specifications**

<b>Species</b>	Rabbit
<b>Source</b>	Human cell
<b>Pack Size</b>	100 µg
<b>IsoType</b>	Total IgG
<b>Storage</b>	-20°C

### **Product Description**

Rabbit polyclonal anti-human IFN alpha antibody was raised against recombinant human IFN alpha expressed in human cell (rhIFN alpha <sup>HuXp</sup>). HumanZyme's human cell expression system has the advantage of tag-free expression and purification, correct folding, accurate tertiary and quaternary structure and authentic post-translational modifications such as glycosylation, phosphorylation, palmitoylation and disulfide bonds. These post-translational modifications are absent in non-human cell expression system and have important implications for cytokine stability, receptor interaction and in vivo efficacy. Total IgG was purified using Protein A affinity chromatography.

### **Formulation**

Lyophilized from 0.2µm filtered solution in PBS.

### **Reconstitution**

Reconstitute with sterile PBS or H<sub>2</sub>O. The concentration of antibody will be 1 mg/mL when resuspended in 0.1 mL PBS or H<sub>2</sub>O.

### **Limited Use and Restrictions**

Unless otherwise stated in our catalog or other company documentation accompanying the product, products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals. For a complete statement of this Limited Use License and its application to drug discovery and diagnostic research please visit [www.humanzyme.com](http://www.humanzyme.com)

## **Certificate of Analysis**

### **Polyclonal Anti-human IFN alpha2A <sup>HuXp</sup> Antibody**

**Cat #: HZ-5008**

**Lot #: 0107090001**

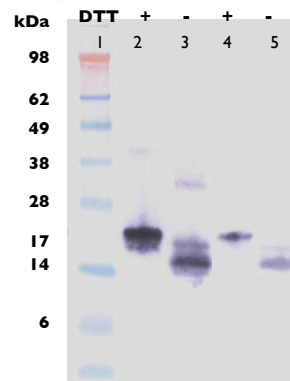
### **Background**

Interferon alpha (IFN alpha) is a glycosylated protein which is produced by many cell types such as monocytes, macrophages, fibroblasts in response to virus infection, nucleic acid induction, glucocorticoid hormones. Some of the other biological effects, including antitumor and immunomodulatory activities IFN-alpha's most important function is the antiviral activity. It enhances the expression of MHC proteins by increasing the presentation of antigen peptides. Some other biological processes involving IFN alpha are: induction of apoptosis, signal transduction, inflammatory response. IFN alpha activates cytotoxic T-cells. IFN alpha binds to its receptors, which upon dimerisation, activate the JAK-STAT pathway.

### **Applications**

Western Blot - This antibody can be used at 0.8 µg/mL with the appropriate secondary reagents to detect human IFN alpha. The detection limit for rhIFN alpha is approximately 20ng/lane under reducing and 75ng/lane non-reducing conditions.

**Antigen: IFN2α2A IFN2α2B**



The Western Blot shows 20ng/lane in reducing conditions and 75ng/lane in non-reducing conditions of IFN alpha from two different antigens: <sup>HuXp</sup>™ IFN alpha 2A (lane 2,3), <sup>HuXp</sup>™ IFN alpha 2B (lane 4,5). Antibody concentration is 1 µg/mL.