

## Mouse anti-Human IFNAR2 Monoclonal Antibody | anti-IFNAR2 antibody

Anti-IFNAR2 Antibody (FITC), Mouse Monoclonal

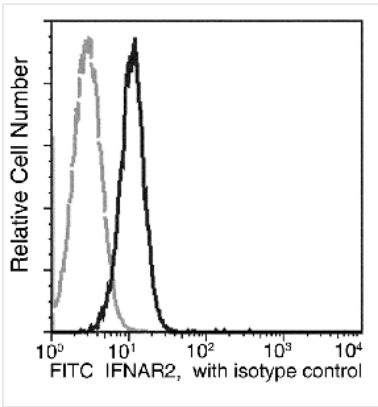
|                               |                      |                            |                                                         |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA254867</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

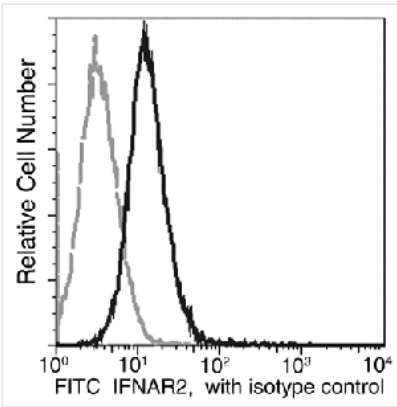
IFNAR2; Monoclonal Antibody; Anti-IFNAR2 Antibody (FITC); Mouse Monoclonal; IFNAR2 Antibody (FITC); Mouse MAb; interferon (alpha; beta and omega) receptor 2; Anti-IFN-alpha-REC Antibody; Anti-IFN-R Antibody; Anti-IFNABR Antibody; Anti-IFNARB Antibody; anti-IFNAR2 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                        |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                        |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                   |
| Isotype                                          | Mouse IgG1                                                                                                                                                                                                                                                                   |
| Clone Number                                     | 07                                                                                                                                                                                                                                                                           |
| Specificity                                      | Human IFNAR2                                                                                                                                                                                                                                                                 |
| Purity/Purification                              | Protein A                                                                                                                                                                                                                                                                    |
| Form/Format                                      | Liquid; Aqueous solution containing 0.5% BSA and 0.09% sodium azide                                                                                                                                                                                                          |
| Concentration                                    | 10ul/Test, 0.1mg/ml (varies by lot)                                                                                                                                                                                                                                          |
| Applicable Applications for anti-IFNAR2 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                    |
| Immunogen                                        | Recombinant Human IFNAR2 protein                                                                                                                                                                                                                                             |
| Conjugation                                      | FITC                                                                                                                                                                                                                                                                         |
| Preparation                                      | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human IFNAR2 (rh IFNAR2) and conjugated with FITC under optimum conditions, the unreacted FITC was removed. |
| Preparation and Storage                          | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.                           |



FCM/FACS (Flow Cytometry)  
Profile of anti-IFNAR2 reactivity on Jurkat cells analyzed by flow cytometry.



Application Data  
Profile of anti-IFNAR2 reactivity on KG-1 cells analyzed by flow cytometry.

ADDITIONAL INFORMATION

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| Related Product Information for anti-IFNAR2 antibody | Interferon-alpha/beta receptor beta chain (IFNAR2) is a type I membrane protein that forms one of the two chains of a receptor for interferons alpha and beta. Binding and activation of the receptor stimulate Janus protein kinases, which in turn phosphorylate several proteins, including STAT1 and STAT2. Initial cell-surface IFNAR2 expression at identification assessed by flow cytometry was widely distributed but showed overall significantly higher expression in CML patients when compared with normal controls. In 15 fresh patients who subsequently received IFNalpha therapy, IFNAR2 expression at identification was significantly higher in cytogenetic good responders than in poor responders. Down-regulation of IFNAR2 expression during IFNalpha therapy was observed only in good responders but not in poor responders. The encoded protein also functions as an antiviral factor. IFNAR2 may associate with IFNAR1 to form the type I interferon receptor. This protein serves as a receptor for interferons alpha and beta. IFNAR2 is also involved in IFN-mediated STAT1, STAT2, and STAT3 activation. Isoform 1 and isoform 2 are directly involved in signal transduction due to their association with the TYR kinase, JAK1. Isoform 3 is a potent inhibitor of type I IFN receptor activity. Following binding of IFNalpha2, IFNAR2 is internalized, but, instead of being routed towards degradation as it is when complexed to IFNbeta, it recycles back to the cell surface. |
| References                                           | Ito K, et al. (2004) Initial expression of interferon alpha receptor 2 (IFNAR2) on CD34-positive cells and its down-regulation correlate with clinical response to interferon therapy in chronic myelogenous leukemia. Eur J Haematol. 73(3): 191-205.Kim SH, et al. (1997) Mammalian type I interferon receptors consists of two subunits: IFNaR1 and IFNaR2. Gene. 196(1-2): 279-86.Saleh AZ, et al. (2004) Regulated proteolysis of the IFNaR2 subunit of the interferon-alpha receptor. Oncogene. 23(42): 7076-86.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.