

## Anti-IFNAR1 Polyclonal Antibody

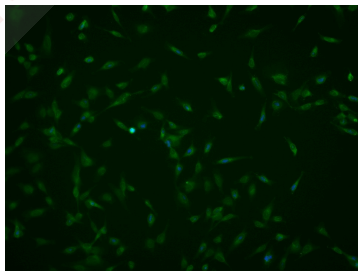
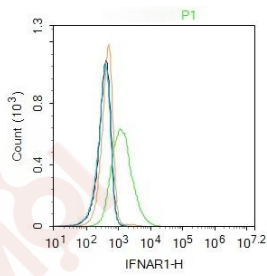
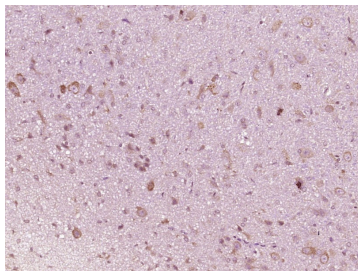
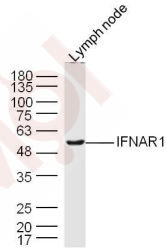
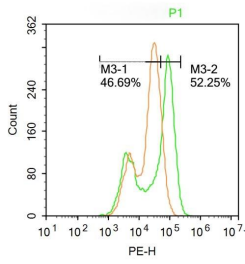
## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Cow,Sheep)
Molecular Weight:	Theoretical: 61 kDa. Actual: 61 kDa.
Purification:	Protein A purified

## Applications

1. Blank control: U-2OS.  
 Primary Antibody (green line): Rabbit Anti-TNNT2 antibody (TMAB-00913)  
 Dilution: 1 µg/10<sup>6</sup> cells;  
 Isotype Control Antibody (orange line): Rabbit IgG.  
 Secondary Antibody: Goat anti-rabbit IgG-AF647  
 Dilution: 1 µg/test.  
 Protocol  
 The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
2. Sample: Lymphnode (Mouse) Lysate at 40 µg  
 Primary: Anti-IFNAR1 (TMAB-00913) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 61 kDa  
 Observed band size: 61 kDa
3. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IFNAR1) Polyclonal Antibody, Unconjugated (TMAB-00913) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Blank control: K562. Primary Antibody (green line): Rabbit Anti-IFNAR1 antibody (TMAB-00913)  
 Dilution: 1 µg/Test;  
 Secondary Antibody: Goat anti-rabbit IgG-FITC  
 Dilution: 0.5 µg/Test.  
 Protocol  
 The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
5. U87MG cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (IFNAR1) polyclonal Antibody, Unconjugated (TMAB-00913) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

Verified Activity:



Application: FCM, ICC/IF, IHC-Fr, IHC-P, WB

Recommended FCM=1 µg/Test; ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human IFNAR1  
Antigen Species: Human  
Gene ID: 3454  
Uniprot ID: P17181  
Synonyms: interferon ( $\alpha$ ,  $\beta$  and  $\Omega$ ) receptor 1;interferon (alpha, beta and omega) receptor 1  
Biology Area: Interferons,STATs,Interferons,STATs

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### Research Background

IFNAR1 is a member of the cytokine receptor superfamily which also includes receptors for interleukins, IFN gamma, ciliary neurotrophic factor, somatotrophin, erythropoietin, nerve growth factor, tumor necrosis factor, leukemia inhibitory factor, and oncostatin M. Some members of the family have an alpha chain with either low or high ligand binding affinity and at least one beta chain involved in signal transduction with either relatively low or no ligand binding affinity. Type I interferons, alpha and beta, induce a variety of effects on target cells including antiviral, antiproliferative, and immunomodulatory activities. The alpha and beta interferons compete to bind to a common cell surface receptor, while IFN gamma binds to a distinct receptor. IFNAR1 is very responsive to type I interferons and bind to IFN beta and IFN alpha subtypes. It is also functionally involved in signal transduction because of its association with the cytoplasmic tyrosine kinase JAK1. The type I interferons, alpha and beta, are produced by leukocytes (alpha subunits), fibroblasts (beta subtypes), lymphocytes (omega subtypes), and ruminant embryos (tau subtypes). Interferon receptors are generally found on most human cell types whatever their origin, even on cells poorly responsive to interferon. IFNAR1 is expressed on the cell surface in a variety of human cell lines.

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