

#### **International Office**

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Research Use Only. Not for diagnostic or therapeutic use.

# EB12101 - Goat Anti-IFNGR1 (aa181-193) Antibody

Size: 100µg specific antibody in 200µl



#### **Target Protein**

**Principal Names:** IFNGR1, interferon gamma receptor 1, CD119, IFNGR, AVP, type 2, CD119 antigen, CDw119, IFN-gamma receptor 1, IFN-gamma-R1, antiviral protein, type 2, immune interferon receptor 1, interferon-gamma receptor alpha chain

Official Symbol: IFNGR1

Accession Number(s): NP\_000407.1; NP\_001350455.1; NP\_001350456.1

Human GeneID(s): 3459

#### **Immunogen**

Peptide with sequence C-SEIQYKILTQKED, from the internal region of the protein sequence according to NP\_000407.1; NP\_001350455.1; NP\_001350456.1.

Please note the peptide is available for sale.

### **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:128000.

**Western blot:** Approx. 70kDa band observed in lysates of cell lines K562, Caco-2 and HepG2, and approx. 50kDa in Human Spleen lysates (calculated MW of 50.1kDa according to NP\_001350456.1). The 70kDa observed molecular weight corresponds to the glycosylated form. Recommended concentration: 1-2µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Lung. Recommended concentration: 4-6µg/ml.

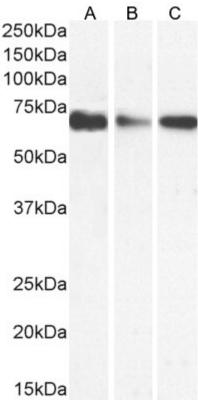
**Immunofluorescence:** Strong expression of the protein seen in the membranes of Caco-2 and THP-1 cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of K562 cells. Recommended concentration: 10ug/ml.

## **Species Reactivity**

Tested: Human

Expected from sequence similarity: Human

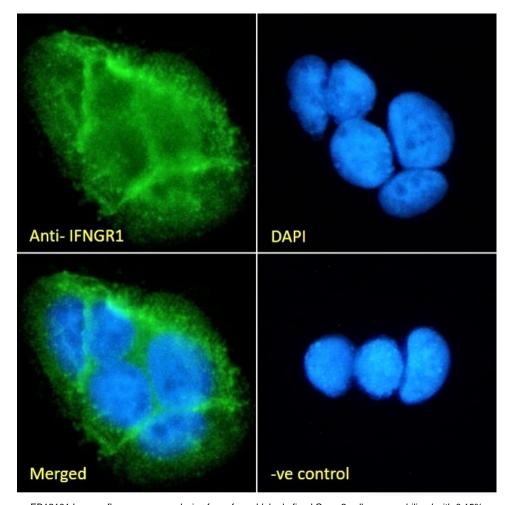


EB12101 (1µg/ml) staining of K562 (A) Caco-2 (B) and HepG2 (C) cell lysate (35µg protein in RIPA buffer).

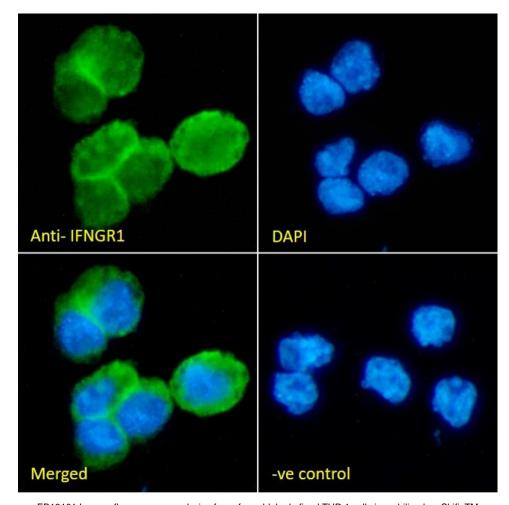
Detected by chemiluminescence.



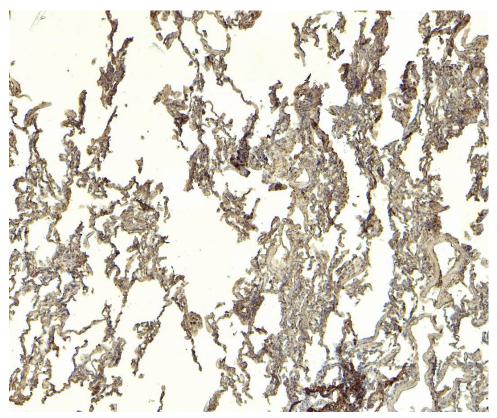
EB12101 (2µg/ml) staining of Human Spleen lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



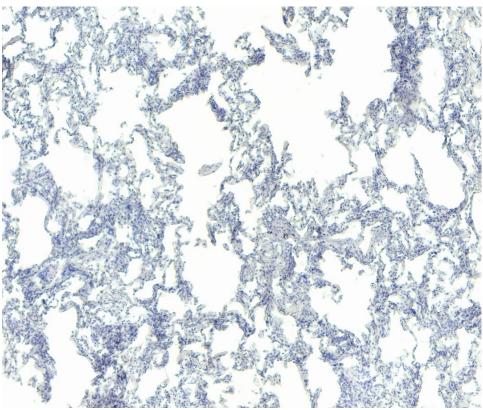
EB12101 Immunofluorescence analysis of paraformaldehyde fixed Caco-2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



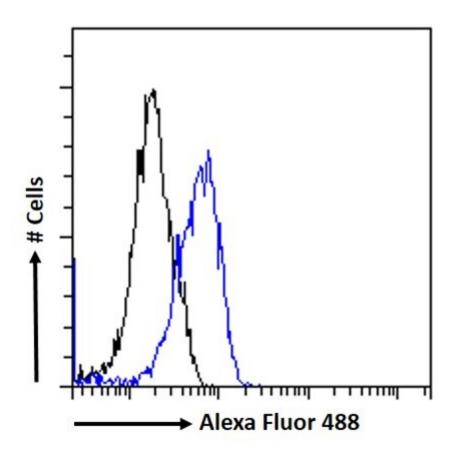
EB12101 Immunofluorescence analysis of paraformaldehyde fixed THP-1 cells immobilized on ShifixTM coverslip, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB12101 (4 $\mu$ g/ml) staining of paraffin embedded Human Lung. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB12101 Negative Control showing staining of paraffin embedded Human Lung, with no primary antibody.



EB12101 Flow cytometric analysis of paraformaldehyde fixed K562 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.