

IFN- γ R α Polyclonal Antibody
Catalog # AP73578**Specification****IFN- γ R α Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	P15260
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

IFN- γ R α Polyclonal Antibody - Additional Information**Gene ID** 3459**Other Names**

IFNGR1; Interferon gamma receptor 1; IFN-gamma receptor 1; IFN-gamma-R1; CDw119; CD119

Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

IFN- γ R α Polyclonal Antibody - Protein Information**Name** IFNGR1 ([HGNC:5439](#))**Function**

Receptor subunit for interferon gamma/INFG that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed:20015550). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed:10986460, PubMed:2971451, PubMed:7615558, PubMed:7617032, PubMed:7673114). Upon ligand binding, the intracellular domain of IFNGR1 opens out to allow association of downstream signaling components JAK1 and JAK2. In turn, activated JAK1 phosphorylates IFNGR1 to form a docking site for STAT1. Subsequent phosphorylation of STAT1 leads to dimerization, translocation to the nucleus, and stimulation of target gene transcription (PubMed:28883123). STAT3 can

also be activated in a similar manner although activation seems weaker. IFNGR1 intracellular domain phosphorylation also provides a docking site for SOCS1 that regulates the JAK-STAT pathway by competing with STAT1 binding to IFNGR1 (By similarity).

Cellular Location

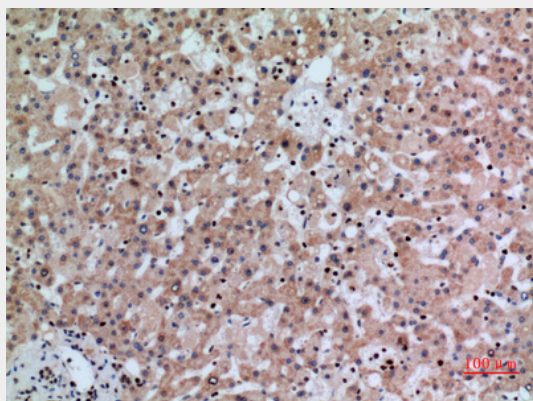
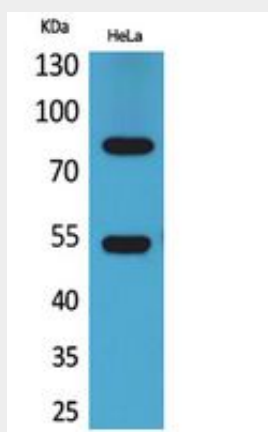
Cell membrane; Single-pass type I membrane protein

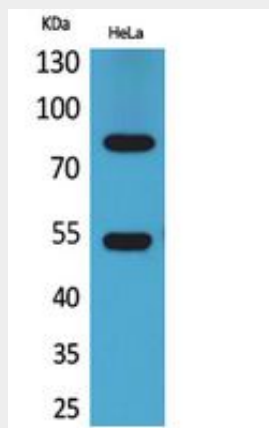
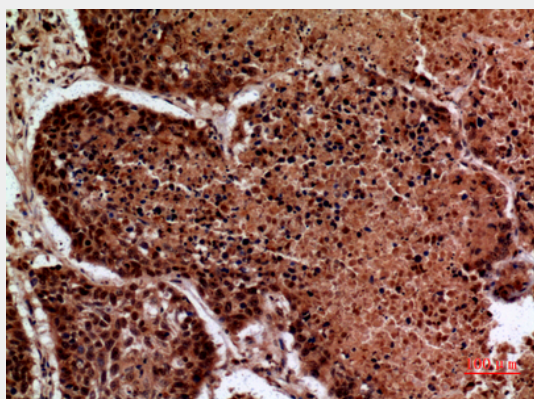
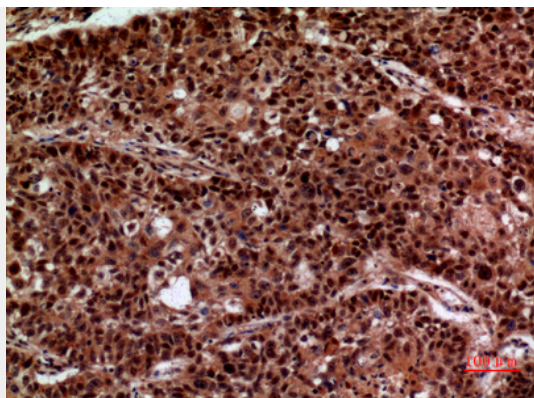
IFN- γ R α Polyclonal Antibody - Protocols

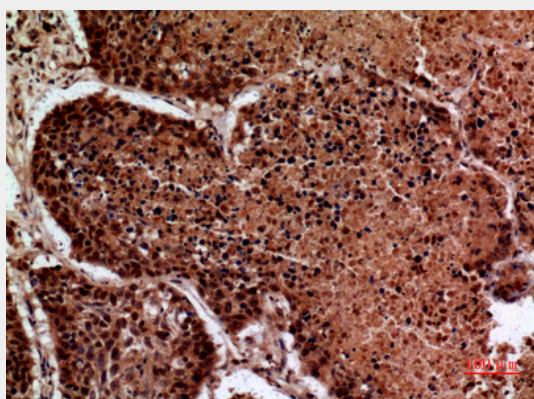
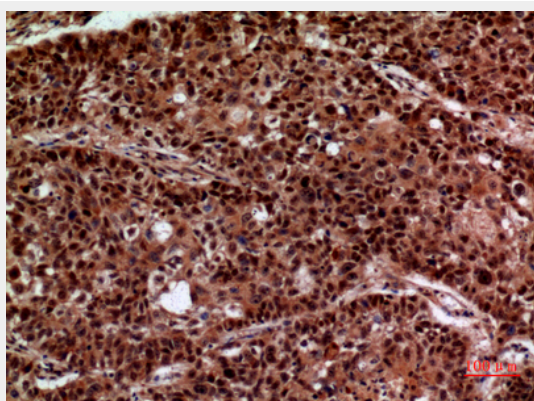
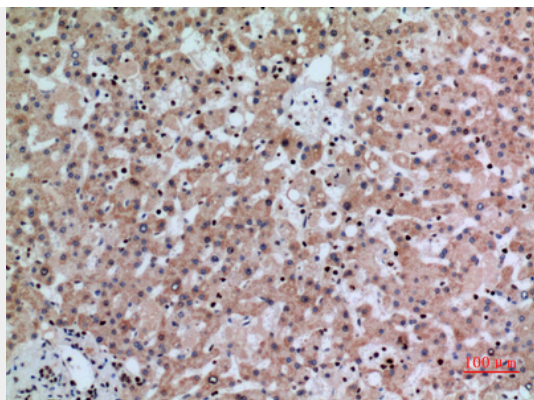
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IFN- γ R α Polyclonal Antibody - Images







IFN- γ R α Polyclonal Antibody - Background

Associates with IFNGR2 to form a receptor for the cytokine interferon gamma (IFNG) (PubMed:7615558, PubMed:2971451, PubMed:7617032, PubMed:10986460). Ligand binding stimulates activation of the JAK/STAT signaling pathway (PubMed:7673114). Plays an essential role in the IFN-gamma pathway that is required for the cellular response to infectious agents (PubMed:20015550).