For Research Use Only

IFNGR1 Polyclonal antibody

Catalog Number:10808-1-AP Featured Product 10 Publications

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Basic Information

Catalog Number:
10808-1-AP

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop and 533 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1114

GenBank Accession Number:
BC005333

GeneID (NCBI):
3459

Full Name:
interferon gamma receptor 1

Calculated MW:
54 kDa

Observed MW:
90 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500

Applications

Tested Applications:
FC, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, HepG2 cells

IP : HepG2 cells,

IHC : human pancreas cancer tissue,

Background Information

Interferon-gamam (IFN-γ) is a cytokine critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Cellular responses to IFN-γ are activated through its interaction with a heterodimeric receptor consisting of two subunits, IFNGR1 (CD119) and IFNGR2. IFNGR1 is the ligand-binding subunit which binds IFN-γ with high affinity, whereas IFNGR2 serves as the accessory subunit. Two subunits bind one IFN-γ dimer. Defects in IFNGR1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection. (PMID: 17981204; 946248; 10888113)

Notable Publications

Author	Pubmed ID	Journal	Application
Kefang Tan	28562647	PLoS One	WB
Shuang Qu	35663227	Mol Ther Oncolytics	IF
Elena Parmigiani	35803280	Dev Cell	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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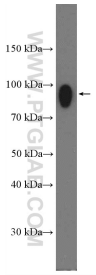
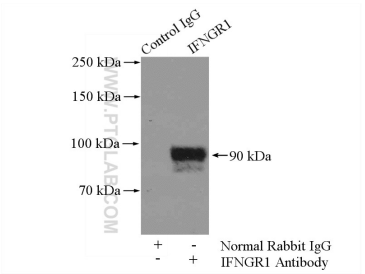
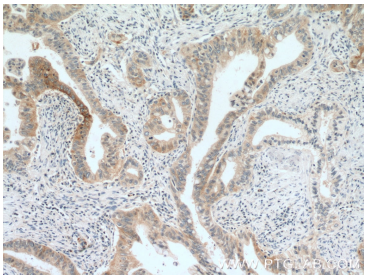
Selected Validation Data



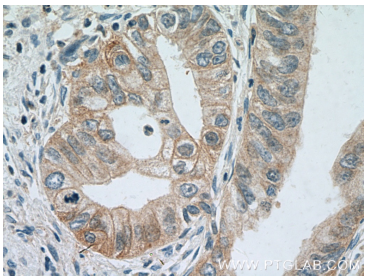
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10808-1-AP (IFNGR1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



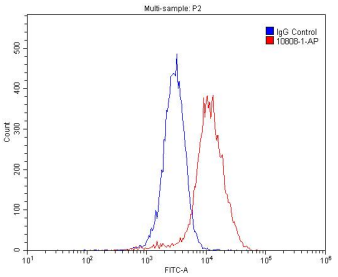
IP Result of anti-IFNGR1 (IP:10808-1-AP, 4ug; Detection:10808-1-AP 1:500) with HepG2 cells lysate 1800ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10808-1-AP (IFNGR1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10808-1-AP (IFNGR1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were stained with .2ug IFNGR1 antibody (10808-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.