For Research Use Only

GBP1 Monoclonal antibody

Catalog Number:67161-1-Ig 5 Publications

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Basic Information

Catalog Number:
67161-1-Ig

Size:
150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG7767

GenBank Accession Number:
BC002666

GeneID (NCBI):
2633

UNIPROT ID:
P32455

Full Name:
GTP binding protein 1

Calculated MW:
68 kDa

Observed MW:
68 kDa

Purification Method:
Protein A purification

CloneNo.:
2A10E8

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:1000-1:4000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, rat, pig

Cited Species:
human, mouse, pig, chinese tree shrews

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 : HeLa cells, human placenta tissue, HUVEC cells, pig spleen tissue, rat spleen tissue, HEK-293 cells

IHC : human ovary tumor tissue,

Background Information

Guanylate binding protein 1 (GBP1) belongs to the dynamin superfamily of large GTPases. The expression of GBP1 is induced by IFN and GBP1 is characterized by its ability to specifically bind guanine nucleotides such as GMP, GDP, and GTP and its ability to hydrolyze GTP to GDP and GMP. GBP1 is induced in response to type I and type II IFNs and as such plays a role in protective immunity against a spectrum of intracellular pathogens ranging from viruses to bacteria to protozoa, such as negative-strand RNA Rhabdovirus, vesicular stomatitis virus and the positive-strand RNA Picornovirus, encephalomyocarditis virus in cultured cells, the inhibition of Chlamydia trachomatis, Toxoplasma gondii, and Salmonella enterica.

Notable Publications

Author	Pubmed ID	Journal	Application
Tianle Gu	34732469	J Immunol	WB,IF
Yinnan Meng	33552086	Front Immunol	WB,IF
Daniel J Bennison	42265284	EMBO J	

Storage

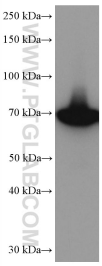
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

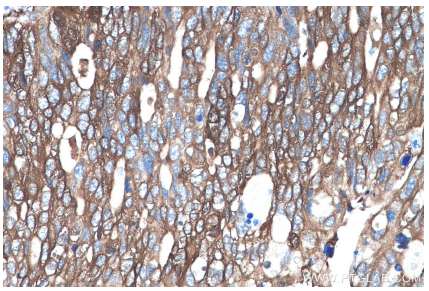
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

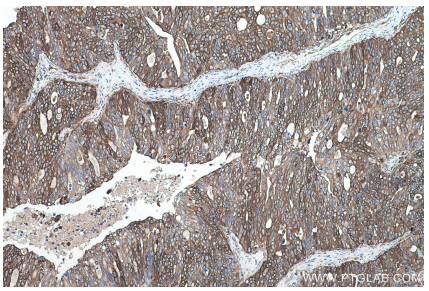
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 67161-1-Ig (GBP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 67161-1-Ig (GBP1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 67161-1-Ig (GBP1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).