

For Research Use Only

GBP2 Polyclonal antibody

Catalog Number: 11854-1-AP

Featured Product

54 Publications



Basic Information

Catalog Number:

11854-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2425

GenBank Accession Number:

BC022272

GeneID (NCBI):

2634

UNIPROT ID:

P32456

Full Name:

guanylate binding protein 2, interferon-inducible

Calculated MW:

591 aa, 67 kDa

Observed MW:

67 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, toxoplasma

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: mouse spleen tissue, human placenta tissue, A375 cells, K-562 cells, human lung tissue, rat spleen tissue

IHC: human spleen tissue, human tonsillitis tissue

IF/ICC: HeLa cells,

Background Information

GBP2 is a member of the GTPase family and is crucial to host immunity against pathogens. GBP2 is also used as a marker of interferon (IFN) responsiveness because it is one of the most highly expressed genes after IFN- γ stimulation. Increased GBP2 expression is also associated with a better prognosis in breast cancer and may have a role in T-cell defense against breast cancer. Interestingly, GBP2 expression in NIH/3T3 fibroblasts inhibited Rac activation and matrix metalloproteinase-9 expression, suggesting a possible role for GBP2 in regulating cancer metastasis. The molecular weight of GBP2 is 67 kDa. (PMID: 29072687, 35383115)

Notable Publications

Author	Pubmed ID	Journal	Application
Zhi Peng	36162807	J Cachexia Sarcopenia Muscle	WB,IF
Yuan Zhang	36115937	BMC Immunol	IHC
Naoya Sakaguchi	33042141	Front Immunol	IF

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

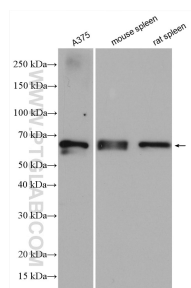
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

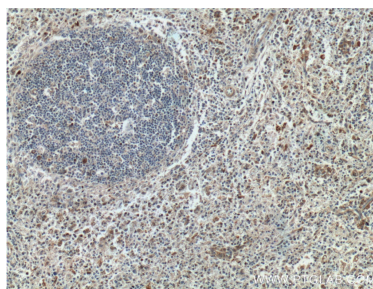
E: proteintech@ptglab.com
W: ptglab.com

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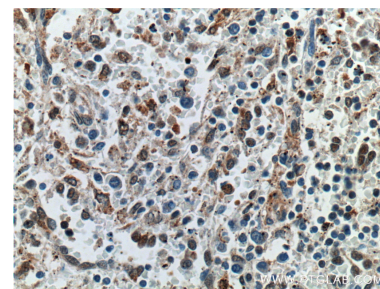
Selected Validation Data



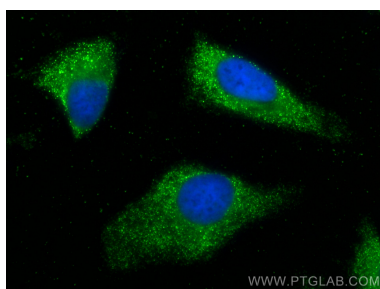
Various lysates were subjected to SDS PAGE followed by western blot with 11854-1-AP (GBP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 11854-1-AP (GBP2 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 11854-1-AP (GBP2 antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GBP2 antibody (11854-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).