

For Research Use Only

# GBP2 Polyclonal antibody

Catalog Number: 11854-1-AP

Featured Product

43 Publications



## Basic Information

<b>Catalog Number:</b> 11854-1-AP	<b>GenBank Accession Number:</b> BC022272	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2634	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> guanylate binding protein 2, interferon-inducible	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 591 aa, 67 kDa	
<b>Immunogen Catalog Number:</b> AG2425	<b>Observed MW:</b> 67 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, IF, IHC, IP, WB	<b>WB :</b> mouse spleen tissue, human placenta tissue, A375 cells, K-562 cells, human lung tissue, rat spleen tissue
<b>Species Specificity:</b> human, rat, mouse	<b>IHC :</b> human spleen tissue, human tonsillitis tissue
<b>Cited Species:</b> Toxoplasma, human, rat, mouse	<b>IF :</b> HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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- $\gamma$  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

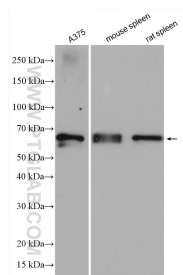
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

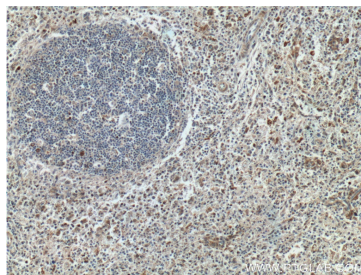
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

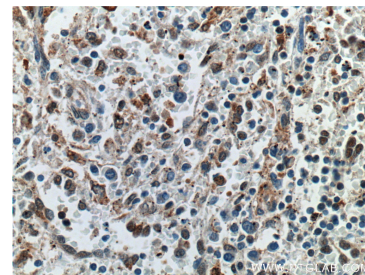
## Selected Validation Data



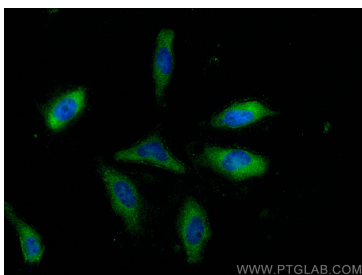
Various lysates were subjected to SDS PAGE followed by western blot with 11854-1-AP (GBP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 (4% PFA) fixed HeLa cells using GBP2 antibody (11854-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).