

For Research Use Only

# C1QBP Recombinant antibody

Catalog Number: 80490-1-RR

Featured Product



## Basic Information

### Catalog Number:

80490-1-RR

### Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG19773

### GenBank Accession Number:

BC013731

### GeneID (NCBI):

708

### UNIPROT ID:

Q07021

### Full Name:

complement component 1, q subcomponent binding protein

### Calculated MW:

282 aa, 31 kDa

### Observed MW:

32-35 kDa

### Purification Method:

Protein A purification

### CloneNo.:

3K20

### Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

IF/ICC 1:250-1:1000

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Species Specificity:

human, mouse, rat

**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, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

**IHC** : human tonsillitis tissue,

**IF/ICC** : HeLa cells,

## Background Information

C1QBP, also named as gC1q receptor (gC1qR), p32, p33, and hyaluronan-binding protein 1 (HABP1), is a protein initially copurified with splicing factor SF2 (PMID: 1830244). The protein is synthesized as a pro-protein of 282 amino acids (aa) that is post-translationally processed by removal of the initial 73 aa to a mature protein of 209 aa (PMID: 8262387). C1QBP is an evolutionary conserved and ubiquitously expressed multifunctional protein and has been reported to be a predominantly mitochondrial matrix protein involved in inflammation and infection processes, mitochondrial ribosome biogenesis, regulation of apoptosis and nuclear transcription, and pre-mRNA splicing (PMID: 28942965).

## 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

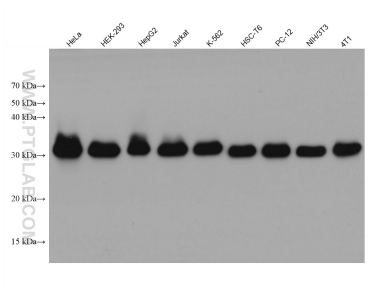
For technical support and original validation data for this product please contact:

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

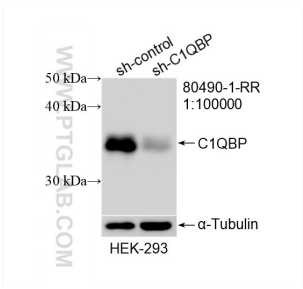
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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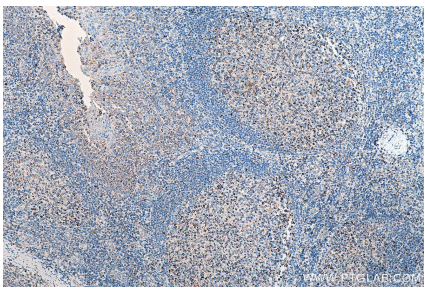
Selected Validation Data



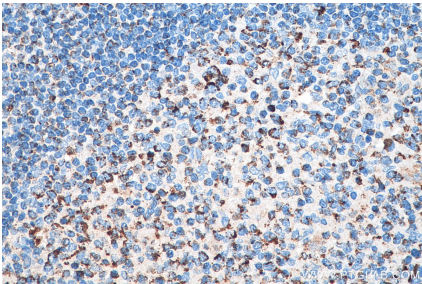
Various lysates were subjected to SDS PAGE followed by western blot with 80490-1-RR (C1QBP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



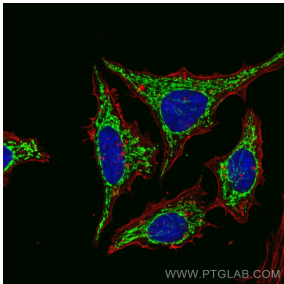
WB result of C1QBP antibody (80490-1-RR; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-C1QBP transfected HEK-293 cells.



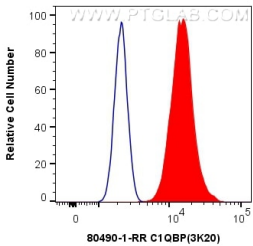
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80490-1-RR (C1QBP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



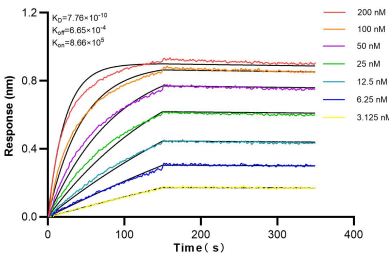
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80490-1-RR (C1QBP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using C1QBP antibody (80490-1-RR, Clone: 3K20 ) at dilution of 1:500 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite® 594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.5 ug Anti-Human C1QBP (80490-1-RR, Clone:3K20) (red) labeled with FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Rabbit IgG (KFA002), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 80490-1-RR against Human C1QBP were performed. The affinity constant is 0.776 nM.