

For Research Use Only

# C1QBP Recombinant antibody

Catalog Number: 80490-1-RR

Featured Product



## Basic Information

Catalog Number:

80490-1-RR

Concentration:

1000 ug/ml

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

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

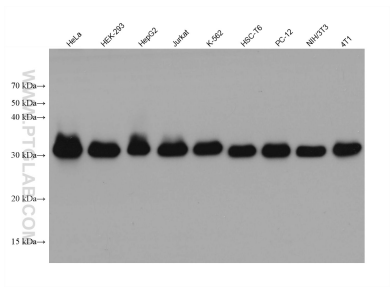
T: 4006900926

E: Proteintech-CN@ptglab.com

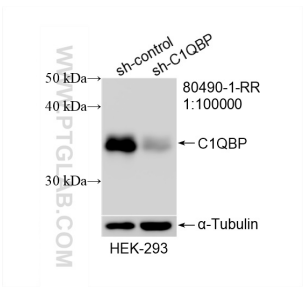
W: ptgcn.com

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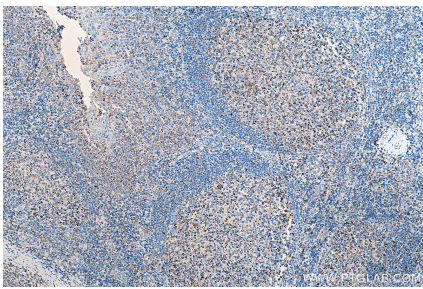
Selected Validation Data



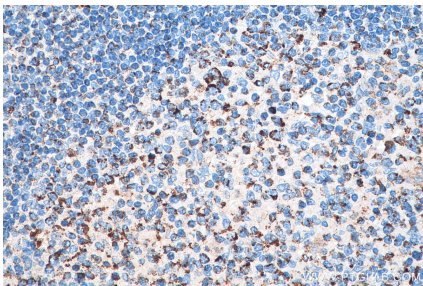
Various lysates were subjected to SDS PAGE followed by western blot with 80490-1-RR (C1QBP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



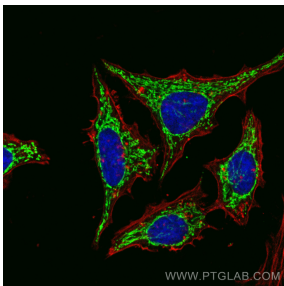
WB result of C1QBP antibody (80490-1-RR; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-C1QBP transfected HEK-293 cells.



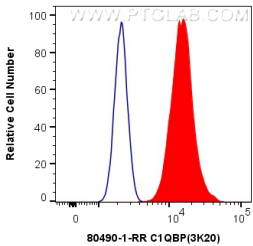
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80490-1-RR (C1QBP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



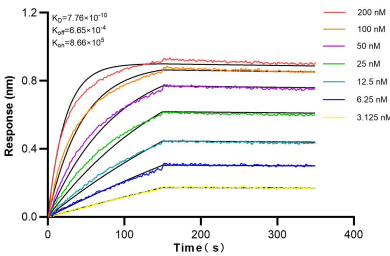
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80490-1-RR (C1QBP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.