For Research Use Only

C1QBP Recombinant antibody, PBS Only

Catalog Number:80490-1-PBS Featured Product

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Basic Information

Catalog Number:
80490-1-PBS

Size:
100ug , Concentration: 1mg/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

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse, rat

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 -80°C.
Storage Buffer:
PBS Only

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
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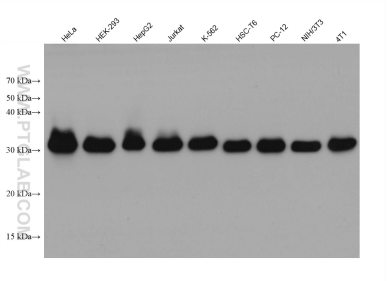
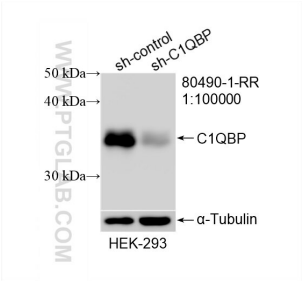
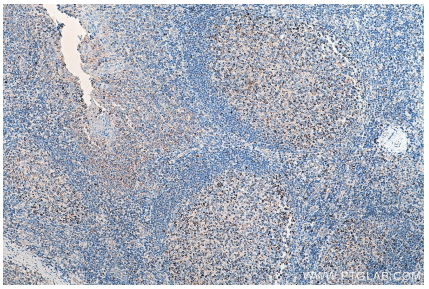
Selected Validation Data



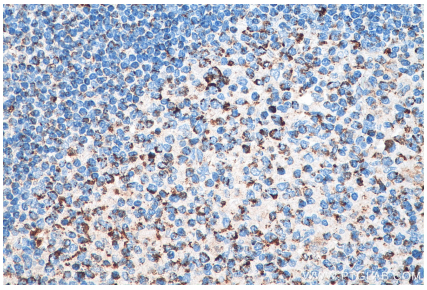
Various lysates were subjected to SDS PAGE followed by western blot with 80490-1-RR (C1QBP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80490-1-PBS in a different storage buffer formulation.



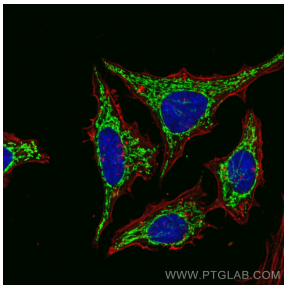
WB result of C1QBP antibody (80490-1-RR; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-C1QBP transfected HEK-293 cells. This data was developed using the same antibody clone with 80490-1-PBS in a different storage buffer formulation.



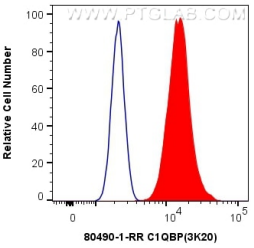
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80490-1-RR (C1QBP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80490-1-PBS in a different storage buffer formulation.



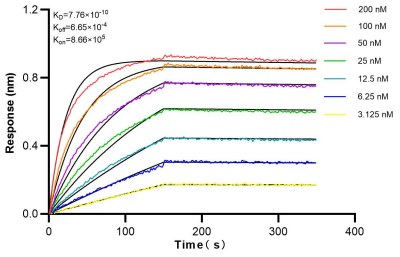
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80490-1-RR (C1QBP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80490-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80490-1-PBS in a different storage buffer formulation.



1X10^6 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). This data was developed using the same antibody clone with 80490-1-PBS in a different storage buffer formulation.



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