

Rabbit C1QBP Polyclonal Antibody | anti-C1QBP antibody

C1QBP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326440	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

C1QBP; Polyclonal Antibody; C1QBP Antibody; ASF/SF2 associated protein p32; C1q globular domain binding protein; C1qBP; C1QBP_HUMAN; Complement component 1 q subcomponent binding protein; Complement component 1 Q subcomponent binding protein mitochondrial; Complement component 1 Q subcomponent-binding protein; mitochondrial; GC1Q R; GC1q R protein; GC1q-R protein; GC1QBP; GC1QR; globular domain of; C1q; receptor for; Glycoprotein gC1qBP; HABP 1; HABP1; Hyaluronan binding protein 1; Hyaluronan-binding protein 1; Mitochondrial matrix protein p32; p32; p32 splicing factor; p33; Pre mrna splicing factor SF2 P32 subunit precursor; SF2p32; Splicing factor SF2 associated protein; anti-C1QBP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	C1QBP antibody detects endogenous levels of total C1QBP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	282
Applicable Applications for anti-C1QBP antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human C1QBP
Subcellular Location	Mitochondrion Matrix. Nucleus. Might also be nuclear in some cell types.
Tissue Specificity	Expressed on cell surface of peripheral blood cells (at protein level); Surface expression is reported for macrophages and monocyte-derived dendritic cells.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA326440 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326440 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of HeLA cell lysate, using C1QBP Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-C1QBP antibody	Description: C1QBP, also referred to as p32, p33, gC1q receptor (gC1qR), and hyaluronic acid binding protein 1 (HABP1), was originally identified via its binding interactions with Splicing Factor (SF-2) (1). Multiple, diverse binding partners of C1QBP were subsequently identified, including the globular heads of complement component C1q, hyaluronic acid, selected protein kinases (2), the tumor suppressor ARF (3-5), and multiple antigens of bacterial and viral origin (6). Research studies have shown that C1QBP is overexpressed in a number of cancer cell types (7), and has been implicated in the Warburg effect, whereby cancer cells shift their metabolism from oxidative phosphorylation to glycolysis (7). C1QBP has also been shown to inhibit the Mitochondrial Permeability Transition (MPT) pore, possibly serving a protective function against damage from oxidative stress (8). Function: Is believed to be a multifunctional and multicompartmental protein involved in inflammation and infection processes, ribosome biogenesis, protein synthesis in mitochondria, regulation of apoptosis, transcriptional regulation and pre-mRNA splicing. At the cell surface is thought to act as an endothelial receptor for plasma proteins of the complement and kallikrein-kinin cascades. Putative receptor for C1q; specifically binds to the globular "heads" of C1q thus inhibiting C1; may perform the receptor function through a complex with C1qR/CD93. In complex with cytokeratin-1/KRT1 is a high affinity receptor for kininogen-1/HMWK. Can also bind other plasma proteins, such as coagulation factor XII leading to its autoactivation. May function to bind initially fluid kininogen-1 to the cell membrane. The secreted form may enhance both extrinsic and intrinsic coagulation pathways. It is postulated that the cell surface form requires docking with transmembrane proteins for downstream signaling which might be specific for a cell-type or response. By acting as C1q receptor is involved in chemotaxis of immature dendritic cells and neutrophils and is proposed to signal through CD209/DC-SIGN on immature dendritic cells, through integrin alpha-4/beta-1 during trophoblast invasion of the decidua, and through integrin beta-1 during endothelial cell adhesion and spreading. Signaling involved in inhibition of innate immune response is implicating the PI3K-AKT/PKB pathway. Required for protein synthesis in mitochondria (PubMed:28942965). In mitochondrial translation may be involved in formation of functional 55S mitoribosomes; the function seems to involve its RNA-binding activity. May be involved in the nucleolar ribosome maturation process; the function may involve the exchange of FBL for RRP1 in the association with pre-ribosome particles. Involved in regulation of RNA splicing by inhibiting the RNA-binding capacity of SRSF1 and its phosphorylation. Is required for the nuclear translocation of splicing factor U2AF1L4. Involved in regulation of CDKN2A and HRK-mediated apoptosis. Stabilizes mitochondrial CDKN2A isoform smARF. May be involved in regulation of FOXC1 transcriptional activity and NFY/CCAAT-binding factor complex-mediated transcription. May play a role in antibacterial defense as it can bind to cell surface hyaluronan and inhibit Streptococcus pneumoniae hyaluronate lyase. May be involved in modulation of the immune response; ligation by HCV core protein is resulting in suppression of interleukin-12 production in monocyte-derived dendritic cells. Involved in regulation of antiviral response by inhibiting DDX58 and IFIH1-mediated signaling pathways probably involving its association with MAVS after viral infection. Subunit Structure: Homotrimer; three monomers form a donut-shaped structure with an unusually asymmetric charge distribution on the surface. Interacts with CDK13, HRK, VTN, NFYB, ADRA1B, FOXC1, DDX21, DDX50, NCL, SRSF1, SRSF9 and CDKN2A isoform smARF. Interacts with CD93; the association may represent a cell surface C1q receptor. Interacts with KRT1; the association represents a cell surface kininogen receptor. Interacts with CD209; the interaction is indicative for a C1q:C1QBP:CD209 signaling complex. Interacts with FBL and RRP1; the respective interactions with C1QBP are competitive. Probably associates with the mitoribosome. Interacts with MAVS; the interaction occurs upon viral transfection. Interacts with PPIF. Interacts with U2AF1L4. Similarity: Belongs to the MAM33 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502491
NCBI GeneID	708
NCBI Accession #	NP_001203.1
NCBI GenBank Nucleotide #	NM_001212.3
UniProt Accession #	Q07021; Q2HXR8; Q9NNY8
Molecular Weight	Observed: 31 kDa Predicted: 32 kDa
NCBI Official Full Name	complement component 1 Q subcomponent-binding protein, mitochondrial
NCBI Official Synonym Full Names	complement C1q binding protein
NCBI Official Symbol	C1QBP

NCBI Official Synonym Symbols	p32; HABP1; gC1qR; GC1QBP; SF2p32; gC1Q-R; COXPD33; SF2AP32
NCBI Protein Information	complement component 1 Q subcomponent-binding protein, mitochondrial
UniProt Protein Name	Complement component 1 Q subcomponent-binding protein, mitochondrial
UniProt Gene Name	C1QBP
UniProt Synonym Gene Names	GC1QBP; HABP1; SF2P32; C1qBP; SF2AP32

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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