

Product datasheet for AP01469PU-N

C1QB Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	C1q-B antibody detects endogenous levels of C1q-B protein. (region surrounding Val193)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 28 kDa
Gene Name:	complement component 1, q subcomponent, B chain
Database Link:	<u>Entrez Gene 713 Human</u> <u>P02746</u>



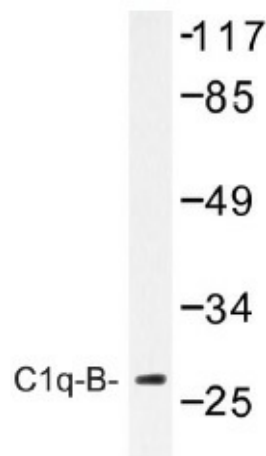
Background:

C1q, a subcomponent of the classical complement pathway, mediates its activation and thereby plays an important role in immune response. The presence of receptors for C1q on effector cells modulates its activity, which may be antibody-dependent or independent. Macrophages are the primary source of C1q, and anti-inflammatory drugs as well as cytokines differentially regulate expression of the mRNA as well as the protein. However, its ability to modulate the interaction of platelets with collagen and immune complexes suggests C1q influences homeostasis as well as other immune activities, and perhaps thrombotic complications resulting from immune injury. C1qR, also designated C1qR(p) and CD93, is a type I cell surface glycoprotein that mediates the enhancement of phagocytic activity. C1qR binds to ligands with collagen-like regions that contain the consensus motif GE(K/Q/R)GEP to elicit the removal or destruction of pathogens and immune complexes by phagocytosis. Such ligands include the complement protein C1q, mannose-binding lectin (MBL), and pulmonary surfactant protein A (SPA). The C1qR protein contains a C-type carbohydrate recognition domain, five EGF-like domains, a transmembrane domain, and a short cytoplasmic tail, and is detected at 126 kDa under reducing conditions. C1qR is expressed in cells of myeloid lineage, endothelial cells, and platelets. C1qR is also considered a positive marker of all bone marrow repopulating stem cells because it is expressed on both CD34- and CD34+ stem cells from umbilical cord blood and adult bone marrow. In addition to its role in phagocytosis, C1qR may be involved in cellular adhesion.

Synonyms:

Complement C1qB, Complement IqB

Product images:



Western blot (WB) analysis of C1q-B antibody (Cat.-No.: AP01469PU-N) in extracts from Jurkat cells.