

Complement C1R Antibody (aa445-494)
Rabbit Polyclonal Antibody
Catalog # ALS14466**Specification****Complement C1R Antibody (aa445-494) - Product Information**

Application	WB, IHC-P, E
Primary Accession	P00736
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

Complement C1R Antibody (aa445-494) - Additional Information**Gene ID** 715**Other Names**

Complement C1r subcomponent, 3.4.21.41, Complement component 1 subcomponent r, Complement C1r subcomponent heavy chain, Complement C1r subcomponent light chain, C1R

Target/Specificity

C1R (light chain,Cleaved-Ile464) Antibody detects endogenous levels of fragment of activated C1R resulting from cleavage adjacent to Ile464.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

Complement C1R Antibody (aa445-494) is for research use only and not for use in diagnostic or therapeutic procedures.

Complement C1R Antibody (aa445-494) - Protein Information**Name** C1R {ECO:0000303|PubMed:3021205, ECO:0000312|HGNC:HGNC:1246}**Function**

Serine protease component of the complement C1 complex, a multiprotein complex that initiates the classical pathway of the complement system, a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:17996945, PubMed:19473974, PubMed:29449492). C1R catalyzes the first enzymatic step in the classical complement pathway: it is activated by the C1Q subcomplex of the C1 complex, which associates with IgG or IgM immunoglobulins complexed

with antigens to form antigen-antibody complexes on the surface of pathogens (PubMed:29449492, PubMed:34155115). Immunoglobulin-binding promotes the autocatalytic cleavage and activation of C1R (PubMed:11445589, PubMed:11673533, PubMed:17996945, PubMed:20178990, PubMed:6254570, PubMed:6271784). Activated C1R then cleaves and activates C1S, the second protease of the classical complement pathway (PubMed:11445589, PubMed:11673533, PubMed:6271784). It is unclear if C1R activates C1S within single, strained C1 complexes or between neighboring C1 complexes on surfaces (PubMed:28104818, PubMed:29311313, PubMed:29449492).

Cellular Location

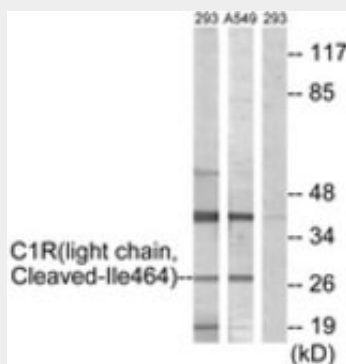
Secreted. Cell surface. Note=Recruited to the surface of pathogens by the C1Q subcomplex.

Complement C1R Antibody (aa445-494) - Protocols

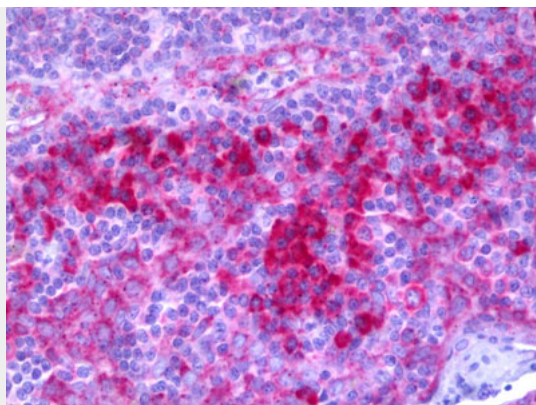
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Complement C1R Antibody (aa445-494) - Images



Western blot of extracts from 293/A549 cells, treated with etoposide 25 uM 1h, using ALS14466.



Anti-C1R / Complement C1r antibody IHC of human tonsil.

Complement C1R Antibody (aa445-494) - Background

C1r B chain is a serine protease that combines with C1q and C1s to form C1, the first component of the classical pathway of the complement system.

Complement C1R Antibody (aa445-494) - References

Leytus S.P.,et al.Biochemistry 25:4855-4863(1986).
Journet A.,et al.Biochem. J. 240:783-787(1986).
Nakagawa M.,et al.Ann. Hum. Genet. 67:207-215(2003).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Scherer S.E.,et al.Nature 440:346-351(2006).