

**C1S Antibody (heavy chain, Cleaved-Arg437)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50647****Specification****C1S Antibody (heavy chain, Cleaved-Arg437) - Product Information**

Application	WB
Primary Accession	<a href="#">P09871</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77 KDa
Antigen Region	425-452

**C1S Antibody (heavy chain, Cleaved-Arg437) - Additional Information****Gene ID** 716**Other Names**

Complement C1s subcomponent, C1 esterase, Complement component 1 subcomponent s, Complement C1s subcomponent heavy chain, Complement C1s subcomponent light chain, C1S

**Dilution**

WB~~1:500

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**C1S Antibody (heavy chain, Cleaved-Arg437) - Protein Information****Name** C1S {ECO:0000303|PubMed:3500856, ECO:0000312|HGNC:HGNC:1247}**Function**

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:<a href="http://www.uniprot.org/citations/11445589" target="\_blank">11445589</a>, PubMed:<a href="http://www.uniprot.org/citations/16169853" target="\_blank">16169853</a>, PubMed:<a href="http://www.uniprot.org/citations/417728" target="\_blank">417728</a>, PubMed:<a href="http://www.uniprot.org/citations/467643" target="\_blank">467643</a>, PubMed:<a href="http://www.uniprot.org/citations/6271784" target="\_blank">6271784</a>, PubMed:<a href="http://www.uniprot.org/citations/6282646" target="\_blank">6282646</a>, PubMed:<a href="http://www.uniprot.org/citations/6319179" target="\_blank">6319179</a>, PubMed:<a href="http://www.uniprot.org/citations/70787" target="\_blank">70787</a>, PubMed:<a

href="http://www.uniprot.org/citations/9422791" target="\_blank">9422791</a>). C1S is activated following association of the C1 complex with immunoglobulins (IgG or IgM) complexed with antigens to form antigen-antibody complexes on the surface of pathogens (PubMed:<a href="http://www.uniprot.org/citations/34155115" target="\_blank">34155115</a>). C1S is cleaved and activated by C1R to generate C1s subcomponent heavy and light chains (PubMed:<a href="http://www.uniprot.org/citations/11445589" target="\_blank">11445589</a>, PubMed:<a href="http://www.uniprot.org/citations/6271784" target="\_blank">6271784</a>). C1s subcomponent light chain then cleaves and activates C2 and C4, the next components of the classical complement pathway (PubMed:<a href="http://www.uniprot.org/citations/16169853" target="\_blank">16169853</a>, PubMed:<a href="http://www.uniprot.org/citations/467643" target="\_blank">467643</a>, PubMed:<a href="http://www.uniprot.org/citations/6282646" target="\_blank">6282646</a>, PubMed:<a href="http://www.uniprot.org/citations/6319179" target="\_blank">6319179</a>, PubMed:<a href="http://www.uniprot.org/citations/6906228" target="\_blank">6906228</a>, PubMed:<a href="http://www.uniprot.org/citations/70787" target="\_blank">70787</a>, PubMed:<a href="http://www.uniprot.org/citations/9422791" target="\_blank">9422791</a>).

### Cellular Location

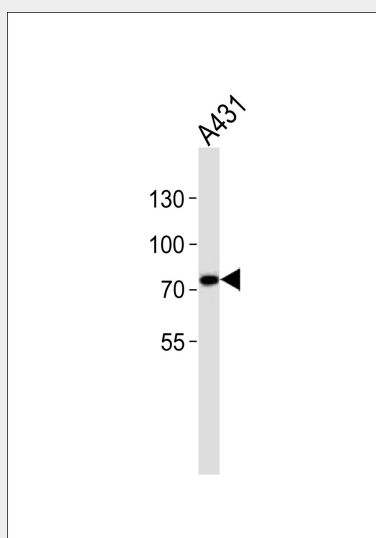
Secreted. Cell surface. Note=Recruited to the surface of pathogens by the C1Q subcomplex.

### C1S Antibody (heavy chain, Cleaved-Arg437) - 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](#)

### C1S Antibody (heavy chain, Cleaved-Arg437) - Images



Western blot analysis of lysate from A431 cell line, using C1S Antibody (heavy chain, Cleaved-Arg437) (AP50647). AP50647 was diluted at 1:500. A goat anti-rabbit IgG H&L (HRP) at

1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

### **C1S Antibody (heavy chain, Cleaved-Arg437) - Background**

C1s B chain is a serine protease that combines with C1q and C1r to form C1, the first component of the classical pathway of the complement system. C1r activates C1s so that it can, in turn, activate C2 and C4.

### **C1S Antibody (heavy chain, Cleaved-Arg437) - References**

McKinnon C.M., et al. Eur. J. Biochem. 169:547-553(1987).  
Tosi M., et al. Biochemistry 26:8516-8524(1987).  
Kusumoto H., et al. Proc. Natl. Acad. Sci. U.S.A. 85:7307-7311(1988).  
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Endo Y., et al. J. Immunol. 161:4924-4930(1998).