www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

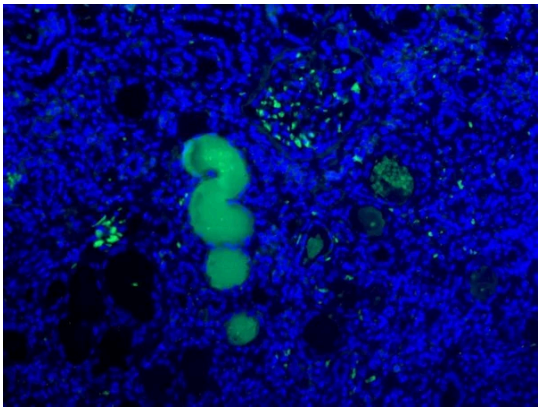
Anti-Pro/Actived Complement C1s Antibody

Product Details

Available Variants	100 uL (SKU:ABS 002-49-010) 400 uL (SKU:ABS 002-49-04) 1000 uL (SKU:ABS 002-49-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	49
Gene Name	C1S
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IF
Dilution Ranges	IHC: 1:10
Species Reactivity	Human
Immunogen	Human plasma C1s Proenzyme
Specificity	ABS 002-49 is specific for C1s proenzyme and activated free C1s and C1s in complex with C1 inhibitor. Epitope differs from that of ABS 002-09.
Molecular Weight	Pro-enzyme C1s (pro-C1s) appears as a single-chain polypeptide around 80 kDa. Upon activation, it is cleaved into two disulfide-linked chains: a ~57 kDa A-chain and and 27 kDa B-chain).
Storage	2-8°C without exposure to light

UniProt ID	P09871 UniProt Summary: 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:11445589, PubMed:16169853, PubMed:417728, PubMed:467643, PubMed:6271784, PubMed:6282646, PubMed:6319179, PubMed:70787, PubMed:9422791). 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:34155115). C1S is cleaved and activated by C1R to generate C1s subcomponent heavy and light chains (PubMed:11445589, PubMed:6271784). C1s subcomponent light chain then cleaves and activates C2 and C4, the next components of the classical complement pathway (PubMed:16169853, PubMed:467643, PubMed:6282646, PubMed:6319179, PubMed:6906228, PubMed:70787, PubMed:9422791). {ECO:0000269|PubMed:11445589, ECO:0000269|PubMed:16169853, ECO:0000269|PubMed:34155115, ECO:0000269|PubMed:417728, ECO:0000269|PubMed:467643, ECO:0000269|PubMed:6271784, ECO:0000269|PubMed:6282646, ECO:0000269|PubMed:6319179, ECO:0000269|PubMed:6906228, ECO:0000269|PubMed:70787, ECO:0000269|PubMed:9422791}.; [Complement C1s subcomponent light chain]: Serine protease component of the complement C1 complex, which catalyzes cleavage and activation of C2 and C4, the next components of the classical complement pathway (PubMed:16169853, PubMed:22949645, PubMed:417728, PubMed:467643, PubMed:6282646, PubMed:6319179, PubMed:70787, PubMed:9422791). Also able to cleave C1 inhibitor (SERPING1) in vitro; additional evidence is however required to confirm this result in vivo (PubMed:16169853). Also cleaves IGFBP5 and thereby inhibits the trophic effects of IGF1 (PubMed:18930415). {ECO:0000269|PubMed:16169853, ECO:0000269|PubMed:18930415, ECO:0000269|PubMed:22949645, ECO:0000269|PubMed:417728, ECO:0000269|PubMed:467643, ECO:0000269|PubMed:6282646, ECO:0000269|PubMed:6319179, ECO:0000269|PubMed:70787, ECO:0000269|PubMed:9422791}.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	716

Product Images



Immunofluorescent staining of Pro/Actived Complement C1s in veins of human kidney with nephritis using Anti-Pro/Actived Complement C1s Antibody (Cat.ABS 002-49-010). Cells where fixed with formaldehyde and permeabilized prior to staining Primary antibody (ABS 002-49-010) was incubated with the cells at a dilution of 1:10.