Best Tools for immunology Research

Cleaved-C1s HC (R437) Polyclonal Antibody

Catalog No :	YC0020
Reactivity :	Human;Rat
Applications :	WB;ELISA
Target :	C1S
Fields :	>>Complement and coagulation cascades;>>Pertussis;>>Staphylococcus aureus infection;>>Coronavirus disease - COVID-19;>>Systemic lupus erythematosus
Gene Name :	C1S
Protein Name :	Complement C1s subcomponent
Human Gene Id :	716
Human Swiss Prot No :	P09871
Immunogen :	The antiserum was produced against synthesized peptide derived from human C1S. AA range:388-437
Specificity :	Cleaved-C1s HC (R437) Polyclonal Antibody detects endogenous levels of fragment of activated C1s HC protein resulting from cleavage adjacent to R437.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 47kD,76kD

Cell Pathway : Complement and coagulation cascades;Systemic lupus erythematosus;

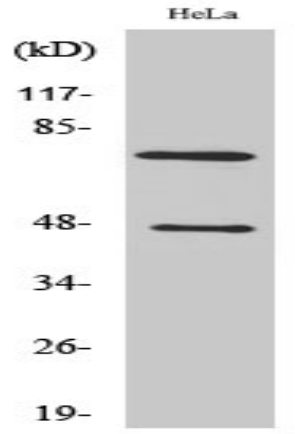
Background : This gene encodes a serine protease, which is a major constituent of the human complement subcomponent C1. C1s associates with two other complement components C1r and C1q in order to yield the first component of the serum complement system. Defects in this gene are the cause of selective C1s deficiency. [provided by RefSeq, Mar 2009],

Function : catalytic activity:Cleavage of Arg-|-Ala bond in complement component C4 to form C4a and C4b, and Lys(or Arg)-|-Lys bond in complement component C2 to form C2a and C2b: the 'classical' pathway C3 convertase.,disease:Defects in C1S are the cause of selective C1s deficiency [MIM:120580]; that is associated with early onset multiple autoimmune diseases.,enzyme regulation:Inhibited by SERPING1.,function:C1s 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. C1r activates C1s so that it can, in turn, activate C2 and C4.,online information:C1S mutation db,PTM:The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 EGF-like domain.,similarity:Contains 1 peptidase S1 dom

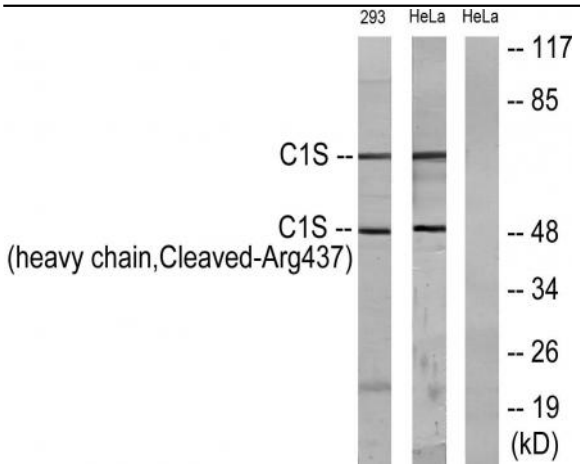
Subcellular Location : extracellular region,extracellular exosome,blood microparticle,

Expression : Liver,Peripheral blood leukocyte,Plasma,PNS,

Products Images



Western Blot analysis of various cells using Cleaved-C1s HC (R437) Polyclonal Antibody



Western blot analysis of lysates from 293 and HeLa cells, treated with etoposide 25uM 1h, using C1S (heavy chain,Cleaved-Arg437) Antibody. The lane on the right is blocked with the synthesized peptide.