Best Tools for immunology Research

Cleaved-C1r LC (I464) Polyclonal Antibody

Catalog No :	YC0019
Reactivity :	Human
Applications :	WB;ELISA
Target :	C1r LC
Fields :	>>Phagosome;>>Complement and coagulation cascades;>>Pertussis;>>Staphylococcus aureus infection;>>Coronavirus disease - COVID-19;>>Systemic lupus erythematosus
Gene Name :	C1R
Protein Name :	Complement C1r subcomponent
Human Gene Id :	715
Human Swiss Prot No :	P00736
Immunogen :	The antiserum was produced against synthesized peptide derived from human C1R. AA range:445-494
Specificity :	Cleaved-C1r LC (I464) Polyclonal Antibody detects endogenous levels of fragment of activated C1r LC protein resulting from cleavage adjacent to I464.
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 : 27kD

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

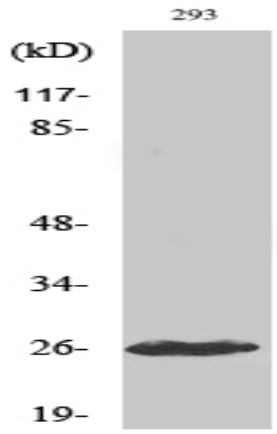
Background : catalytic activity:Selective cleavage of Lys(or Arg)-|-Ile bond in complement subcomponent C1s to form the active form of C1s (EC 3.4.21.42).,function:C1r B chain is a serine protease that combines with C1q and C1s to form C1, the first component of the classical pathway of the complement system.,polymorphism:Complement component C1r deficiency [MIM:216950] leads to the failure of the classical complement system activation pathway (C1 deficiency). Individuals with C1 deficiency are highly susceptible to infections by microorganisms and have greater risk in developing autoimmune diseases such as systemic lupus erythematosus (SLE).,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 domain.,similarity:Contains 2 CUB domains.,similarity:Contains 2 Sushi (CCP/SCR) domains.,subunit:C1 is a calcium-dependent trimolecular complex of C1q, C1r and C1s in the molar ration of 1:2:2. C1r is a dimer of identical chains, each of which is activated by cleavage into two chains, A and B, connected by disulfide bonds.,

Function : catalytic activity:Selective cleavage of Lys(or Arg)-|-Ile bond in complement subcomponent C1s to form the active form of C1s (EC 3.4.21.42).,function: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.,polymorphism:Complement component C1r deficiency [MIM:216950] leads to the failure of the classical complement system activation pathway (C1 deficiency). Individuals with C1 deficiency are highly susceptible to infections by microorganisms and have greater risk in developing autoimmune diseases such as systemic lupus erythematosus (SLE).,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 domain.,simil

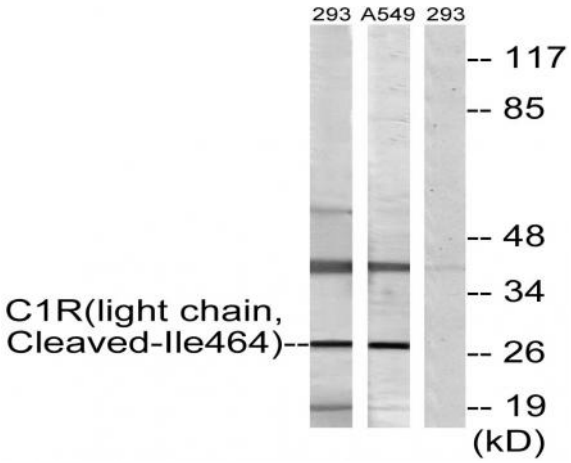
Subcellular Location : Secreted .

Expression : Adipose tissue,Colon endothelium,Liver,Plasma,Skin,

Products Images



Western Blot analysis of various cells using Cleaved-C1r LC (I464) Polyclonal Antibody



Western blot analysis of lysates from 293 and A549 cells, treated with etoposide 25uM 1h, using C1R (light chain,Cleaved-Ile464) Antibody. The lane on the right is blocked with the synthesized peptide.