



Cleaved-C1r LC (I464) Polyclonal Antibody

Catalog No	YP-Ab-13774
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	C1R
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	C1r LC;C1R;Complement C1r subcomponent;Complement component 1 subcomponent r
Observed Band	27kD
Calculated Molecular Weight	27kD
Cell Pathway	Secreted .
Tissue Specificity	Adipose tissue,Colon endothelium,Liver,Plasma,Skin,
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

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 ratio 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.,

matters needing attention

Avoid repeated freezing and thawing!

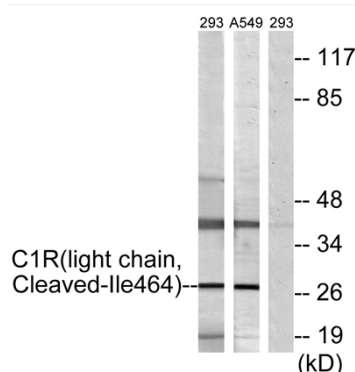
Usage suggestions

This product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.

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.