C1S (light chain, Cleaved-Ile438) mouse mAb

Catalog No	BYmab-13780
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	C1S
Protein Name	C1S (light chain, Cleaved-Ile438)
Immunogen	Synthesized peptide derived from human C1S (light chain, Cleaved-Ile438)
Specificity	This antibody detects endogenous levels of Human C1S (light chain, Cleaved-Ile438, protein was cleaved amino acid sequence between 437-438)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Complement C1s subcomponent (EC 3.4.21.42;C1 esterase;Complement component 1 subcomponent s) [Cleaved into: Complement C1s subcomponent heavy chain; Complement C1s subcomponent light chain]
Observed Band	28kD
Cell Pathway	
Tissue Specificity	
Function	adaptive immune response, immune effector process, activation of immune response, leukocyte mediated immunity,lymphocyte mediated immunity, humoral immune response mediated by circulating immunoglobulin, adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains, acute inflammatory response, activation of plasma proteins involved in acute inflammatory response, positive regulation of immune system process, proteolysis, defense response, inflammatory response, immune response, complement activation, complement activation, classical pathway, humoral immune response, response to wounding, glial cell

	differentiation, response to organic substance, immunoglobulin mediated immune response, protein processing, B cell mediated immunity, gliogenesis, innate immune response, positive regulation of response to stimulus, positive regulat
Background	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 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. Activated C1s is an disulfide-linked heterodimer of a heavy chain and a light chain.,
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.

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