CO2 Monoclonal Antibody

Catalog No	BYmab-07862
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	C2
Protein Name	Complement C2 (EC 3.4.21.43) (C3/C5 convertase) [Cleaved into: Complement C2b fragment; Complement C2a fragment]
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CO2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, 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	
Observed Band	82kD
Cell Pathway	Secreted.
Tissue Specificity	Adipose tissue,Brain,Colon,Liver,Plasma,Small intestine,
Function	catalytic activity:Selective cleavage of Arg-|-Ser bond in complement component C3 alpha-chain to form C3a and C3b, and Arg-|-Xaa bond in complement component C5 alpha-chain to form C5a and C5b.,disease:Defects in C2 are the cause of C2 deficiency (CD2D) [MIM:217000]. CD2D is an autosomal recessive disease. Deficient individuals have an increased incidence of SLE and SLE-like syndromes, glomerulonephritis, vasculitis and pyogenic infections. Type I C2D is characterized by complete loss of the protein while type II C2D is characterized by a selective block in C2 secretion.,function:Component C2 which is part of the classical pathway of the complement system is cleaved by activated factor C1 into two fragments: C2b and C2a. C2a, a serine protease, then combines with complement factor 4b to generate the C3 or C5 convertase.,miscellaneous:C2 is a major histocompatibility complex class-III pr

Background	Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined.[provided by RefSeq, Mar 2009],
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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