

Datasheet for ABIN2192121

anti-C5b-9 antibody

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Overview

Quantity:	100 µg
Target:	C5b-9
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This C5b-9 antibody is un-conjugated
Application:	Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoassay (IA), Western Blotting (WB)

Product Details

Clone:	2A1
Sterility:	0.2 µm filtered

Target Details

Target:	C5b-9
Abstract:	C5b-9 Products
Background:	The monoclonal antibody 2A1 recognizes rat C5b-9. The antibody was shown to compete with antibodies to human C9 for its binding site on the C5b-9 complex, indicating that the reactive epitope is located on the C9 Molecule. C5b-9 membrane attack complexes are assembled from five precursor molecules in the serum. Proteolytic cleavage of C5 by C5 convertase generates C5b which initiates assembly of the C5b-9 complex. The last step of C5b-9 complex formation

Target Details

involves polymerization of C9 which accompanies insertion of the complex into the cell membrane. During formation of C5b-8 and C9 polymerization, neoantigens are generated which are unique to the C5b-9 complex and are not present on any of the individual native complex components. The complement regulatory proteins CD59 and complement S-protein can both prevent C5b-9 insertion into the cell membrane. The formed SC5b-9 complex is unable to attach to cells and is cytolytically inactive. C5b-9 is involved in the progression of chronic proteinuric renal disease by mediating continuous tubulointerstitial damage. Early tubulointerstitial injury in the remnant kidney can be improved when C5b-9 complex forming is abrogated. The monoclonal antibody 2A1 was raised against a rat C5b-9 neoantigen. Monoclonal antibody 2A1 can be used as a coating antibody to detect C5b-9 in plasma and urine samples. Aliases membrane attack complex, MAC Immunogen rat C5b-9

Application Details

Application Notes: For immunohistochemistry and Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. Positive Glomeruli of rats treated with anti-Thy-1.1 antibodies control Negative Glomeruli of C6 deficient rats control

Restrictions: For Research Use only

Handling

Buffer: PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Publications

Product cited in: Nascimento, Sallé, Hoebeke, Argibay, Peineau: "cGMP-mediated inhibition of cardiac L-type Ca(2+) current by a monoclonal antibody against the M(2) ACh receptor." in: **American journal of physiology. Cell physiology**, Vol. 281, Issue 4, pp. C1251-8, (2001) ([PubMed](#)).

Publications

Elies, Fu, Eftekhari, Wallukat, Schulze, Granier, Hjalmarson, Hoebeke: "Immunochemical and functional characterization of an agonist-like monoclonal antibody against the M2 acetylcholine receptor." in: **European journal of biochemistry / FEBS**, Vol. 251, Issue 3, pp. 659-66, (1998) ([PubMed](#)).

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