

Datasheet for ABIN2191986

**anti-C1S antibody****1** Publication[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	C1S
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoassay (IA), Inhibition Assay (InhA)

## Product Details

Clone:	M81
Sterility:	0.2 µm filtered

## Target Details

Target:	C1S
Alternative Name:	c1s ( <a href="#">C1S Products</a> )
Background:	Monoclonal antibody M81 reacts with an epitope on human C protein activated C1s, a subcomponent of the first component of C (C1). Activated C1s is a glycosylated single-polypeptide zymogen, MW 85 kD. Activation of the proenzyme C1s occurs through cleavage by the active form of C1r. The activated protease, activated C1s, consists of a disulfide-linked H chain and a L chain. Activated C1s is a serine protease and its catalytic site is located in the L chain. Activation of the classical C pathway is triggered by activated C1s which cleaves C4 and

## Target Details

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C2 to form the C3 convertase, C4bC2a. The epitope recognised by the antibody M81 is domain IV and/or V of the gamma-domain of activated C1s. Monoclonal antibody M81 blocks C4 activation and C4 binding to activated C1s. The antibody reacts around the binding site of C1s and reacts with both active and inactive C1s.

Pathways: [Complement System](#)

## Application Details

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Application Notes: For immunohistology, flow cytometry 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 1:10. For inhibition of C4 activation by C1s dilutions have to be made according to the amounts C1s to be inactivated.

Restrictions: For Research Use only

## Handling

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Buffer: PBS containing 0.1 % bovine serum albumin.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Expiry Date: 12 months

## Publications

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Product cited in: Matsumoto, Nagaki, Kitamura, Kuramitsu, Nagasawa, Seya: "Probing the C4-binding site on C1s with monoclonal antibodies. Evidence for a C4/C4b-binding site on the gamma-domain." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 142, Issue 8, pp. 2743-50, (1989) ([PubMed](#)).