

Product datasheet

Anti-C5a antibody [EPR19699-24] ab202039

Recombinant **RabMAb**

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Overview

Product name	Anti-C5a antibody [EPR19699-24]
Description	Rabbit monoclonal [EPR19699-24] to C5a
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human serum. IP: Human serum.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19699-24
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab202039 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000.
IP		1/30.

Application notes

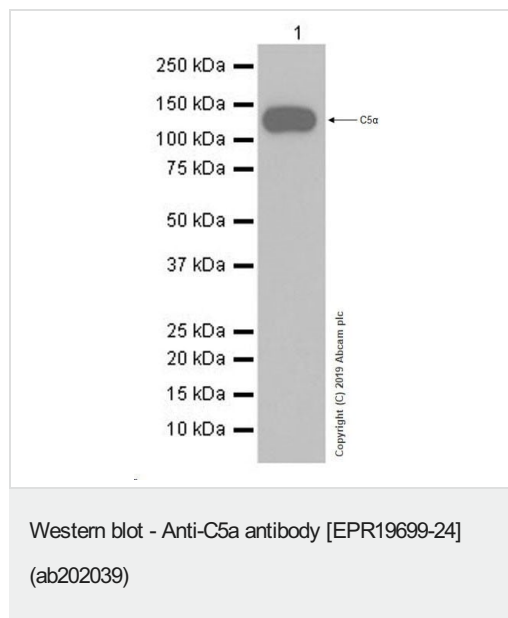
Is unsuitable for IHC-P.

Target

Relevance

Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

Images



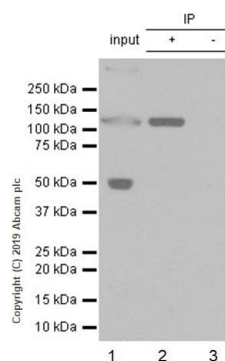
Anti-C5a antibody [EPR19699-24] (ab202039) at 1/1000 dilution +
Human serum at 20 µg

Secondary

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000
dilution

Exposure time: 3 minutes

C5 is cleaved into C5α and C5β and this antibody recognizes the
C5α. The molecular weight observed is consistent with what has
been described in the literature (PMID: 23401592)



Immunoprecipitation - Anti-C5a antibody
[EPR19699-24] (ab202039)

C5a was immunoprecipitated from 0.35 mg human serum 10µg with ab202039 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab202039 at 1/2000 dilution (0.26 µg/ml). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/10,000 dilution.

Lane 1: Human serum 10µg.

Lane 2: ab202039 IP in human serum.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab202039 in human serum.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.

This antibody recognizes C5a.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-C5a antibody [EPR19699-24] (ab202039)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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