

Product datasheet

Anti-C5 / C5α antibody [557] ab11876

★★★★★ 1 Abreviews 6 References

Overview

Product name	Anti-C5 / C5α antibody [557]
Description	Mouse monoclonal [557] to C5 / C5α
Host species	Mouse
Specificity	This antibody reacts with an epitope on C5 and C5α. The antibody 557 is capable to inhibit the binding of C5α to the C5α receptor through a competitive mechanism, it does not block the cleavage of C5 into C5α and C5b.
Tested applications	Suitable for: WB, Inhibition Assay, Functional Studies, ELISA
Species reactivity	Reacts with: Human
Immunogen	Other Immunogen Type corresponding to Human C5/ C5α. Database link: <u>P01031</u>
Epitope	Ab11876 recognizes an epitope located within the alpha-chain of C5 that corresponds to C5α.
Positive control	Recombinant C5
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Constituents: PBS, 0.1% BSA
Purity	Protein G purified
Purification notes	0.2 µm filtered
Clonality	Monoclonal
Clone number	557
Isotype	IgG2a

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab11876 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		Use at an assay dependent concentration.
Inhibition Assay		Use at an assay dependent concentration.
Functional Studies		Use at an assay dependent concentration.
ELISA	★★★★★ (1)	Use at an assay dependent concentration.

Target

Function

Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C5a also stimulates the locomotion of polymorphonuclear leukocytes (chemokinesis) and direct their migration toward sites of inflammation (chemotaxis).

Involvement in disease

Complement component 5 deficiency
An association study of C5 haplotypes and genotypes in individuals with chronic hepatitis C virus infection shows that individuals homozygous for the C5_1 haplotype have a significantly higher stage of liver fibrosis than individuals carrying at least 1 other allele (PubMed:15995705).

Sequence similarities

Contains 1 anaphylatoxin-like domain.
Contains 1 NTR domain.

Cellular localization

Secreted.

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