abcam

Product datasheet

Anti-C3a Receptor antibody ab7209

Overview

Product name	Anti-C3a Receptor antibody
Description	Rabbit polyclonal to C3a Receptor
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment, corresponding to amino acids 161-332 of Human C3a Receptor, corresponding to its second extracellular loop.
General notes	C3a is an anaphylatoxin generated through activation of the complement C3, and is a potent chemoattractant for phagocytes, and stimulates chemotaxis and other leukocyte functions. C3a binds to eosinophils, basophils, neutrophils, and differentiated U937 cells, that all express receptors for C3a on their cell surface. The C3a receptor has been cloned and shown to be a G protein-coupled receptor with seven putative transmembrane domains (Crass 1996, Ames 1996). This receptor is characterized for its large extracellular loop between the fourth and fifth transmembrane domains (Roglic 1996). The loop can be readily detected using the rabbit anti-C3a receptor antibody.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS
Purity	Protein A purified
Primary antibody notes	C3a is an anaphylatoxin generated through activation of the complement C3, and is a potent chemoattractant for phagocytes, and stimulates chemotaxis and other leukocyte functions. C3a binds to eosinophils, basophils, neutrophils, and differentiated U937 cells, that all express receptors for C3a on their cell surface. The C3a receptor has been cloned and shown to be a G protein-coupled receptor with seven putative transmembrane domains (Crass 1996, Ames 1996). This receptor is characterized for its large extracellular loop between the fourth and fifth transmembrane domains (Roglic 1996). The loop can be readily detected using the rabbit anti-C3a receptor antibody.

Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab7209** 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
Flow Cyt		Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C3a. This receptor stimulates chemotaxis, granule enzyme release and superoxide anion production.
Tissue specificity	Widely expressed in several differentiated hematopoietic cell lines, in the lung, spleen, ovary, placenta, small intestine, throughout the brain, heart, and endothelial cells. Mostly expressed in lymphoid tissues.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Post-translational modifications	Among the sulfation sites Tyr-174 is essential for binding of C3a anaphylatoxin.
Cellular localization	Cell membrane.

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