Datasheet for ABIN2192106

anti-C5a Receptor antibody

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Overview

Quantity:	100 µg
Target:	C5a Receptor (C5AR)
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This C5a Receptor antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Clone:	R63
Sterility:	0.2 µm filtered

Target Details

Target:	C5a Receptor (C5AR)
Alternative Name:	c5a Receptor (C5AR Products)
Background:	The monoclonal antibody R63 reacts with the rat receptor for C5a (CD88). The rat anaphylatoxin C5a is a 77-amino acid glycopolypeptide which is generated by proteolytic cleavage of the complement factor C5 in the course of complement activation. A variety of biological effects evoked by C5a has been demonstrated, rendering this molecule an important mediator of inflammation, with granulocytes and macrophages as the main target cells. All

Target Details

cellular responses to C5a are specifically mediated by interactions with the membrane bound C5a receptor, a seven transmembrane GTP-binding-protein- coupled receptor that belongs to the rhodopsin supergene family. The 45 kDa C5a receptor is expressed by myeloid cells including Kupfer cells. Using immunohistology there is no evidence for non-myeloid expression in healthy control rats. Under inflammatory situations however the C5aR was found to be upregulated in various organs and tissues including the liver. Aliases C5aR, CD88, C5a anaphylatoxin chemotactic receptor, C5a anaphylatoxin receptor, C5a ligand, C5a- R, complement component 5a receptor 1 Immunogen RBH-2H3 cells transfected with rat C5aR gene

Application Details

Application Notes:	For immunohistochemistry, 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 1:50.
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:	Crane, Baiquni, Sullivan, Lee, Sah, Taylor, Noakes, Woodruff: "The C5a anaphylatoxin receptor CD88 is expressed in presynaptic terminals of hippocampal mossy fibres." in: **Journal of neuroinflammation**, Vol. 6, pp. 34, (2009) (PubMed). Woodruff, Costantini, Crane, Atkin, Monk, Taylor, Noakes: "The complement factor C5a contributes to pathology in a rat model of amyotrophic lateral sclerosis." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 181, Issue 12, pp. 8727-34, (2008) (PubMed).

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Griffin, Costigan, Brenner, Ma, Scholz, Moss, Allchorne, Stahl, Woolf: "Complement induction in spinal cord microglia results in anaphylatoxin C5a-mediated pain hypersensitivity." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 27, Issue 32, pp. 8699-708, (2007) (PubMed).

Schieferdecker, Schlaf, Koleva, Götze, Jungermann: "Induction of functional anaphylatoxin C5a receptors on hepatocytes by in vivo treatment of rats with IL-6." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 164, Issue 10, pp. 5453-8, (2000) (PubMed).

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