abcam

Product datasheet

Anti-C5R1 antibody ab59390

1 Abreviews 1 References 2 Images

Overview

Product name	Anti-C5R1 antibody
Description	Rabbit polyclonal to C5R1
Specificity	This antibody detects endogenous levels of total C5R1 protein.
Tested applications	**Suitable for:** ELISA, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthesized non-phosphopeptide derived from human C5R1 around the phosphorylation site of serine 338.
Positive control	WB: Extracts from HeLa cells treated with PMA (125ng/ml, 30mins).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab59390** 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
ELISA		
WB		

Application	Abreviews	Notes
IHC-P		

Application notes

ELISA: 1/5000.
IHC-P: Use at a concentration of 1 µg/ml.
WB: 1/500 - 1/1000. Detects a band of approximately 46 kDa (predicted molecular weight: 39 kDa).
Lysis buffer: 50mM Tris(pH7.4),150mM NaCl,1% Triton X-100,1% sodium deoxycholate,0.1% SDS and sodium orthovanadate,sodium fluoride,EDTA ,leupeptin.
Blocking buffer: 3%BSA, 2 hours. Dilute the primary antibody in blocking buffer.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. This receptor stimulates chemotaxis, granule enzyme release and superoxide anion production.

Sequence similarities

Belongs to the G-protein coupled receptor 1 family.

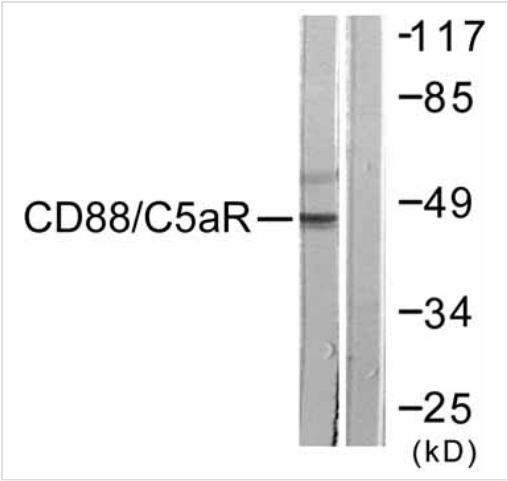
Post-translational modifications

Sulfation plays a critical role in the association of the receptor with C5a, but no significant role in the ability of the receptor to transduce a signal and mobilize calcium in response to a small peptide agonist.

Cellular localization

Cell membrane.

Images

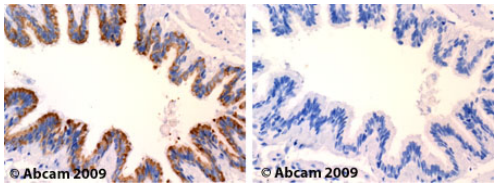


Western blot - C5R1 antibody (ab59390)

All lanes : Anti-C5R1 antibody (ab59390) at 1/500 dilution

Lane 1 : Extracts from HeLa cells, treated with PMA (125ng/ml, 30mins).
Lane 2 : Extracts from HeLa cells, treated with PMA (125ng/ml, 30mins) plus peptide.

Predicted band size : 39 kDa
Observed band size : 46 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-C5R1 antibody(ab59390)

ab59390 staining C5R1 in human lung.
Left panel: with primary antibody at 1 ug/ml.
Right panel: isotype control.
Sections were stained using an automated system (DAKO Autostainer Plus), at room temperature: sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers EDTA pH 9.0. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.

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