



Rat Anti-Mouse C5 Monoclonal antibody, clone 306219 (CABT-L277)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects mouse Complement Component C5a in Western blots. In Western blots, this antibody does not cross-react with recombinant mouse Complement Component C3d, recombinant human (rh) Complement Component C3a, or rhComplement Component C5a.
Target	Complement Component C5a
Immunogen	E. coli-derived recombinant mouse Complement Component C5a, Asn679-Arg755, Accession #P06684
Isotype	IgG2A
Source/Host	Rat
Species Reactivity	Mouse
Clone	306219
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	ELISA(Cap), WB
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized; Small package size(SP): Liquid
Size	100 µg, 500 µg
Buffer	PBS with Trehalose

Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
Ship	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

BACKGROUND

Introduction	Mouse Complement 5a (C5a) is an enzymatically generated glycoprotein that belongs to a family of structurally and functionally related proteins known as Anaphylatoxins. C5a is a 77 amino acid (aa) peptide that is created by the activity of C5a convertase on the C5 alpha-chain. Mouse C5a has four alpha-helices, plus three intrachain disulfide bonds that create a triple loop structure. In serum, proteolytic processing removes the C-terminal arginine, creating a low activity C5a desArg77 molecule. Mouse C5a shares 60% and 82% aa sequence identity to human and rat C5a, respectively. C5a binds to a signaling G-protein coupled receptor (GPCR) (C5aR/CD88), inducing neutrophil chemotaxis and endothelial cell activation. It also triggers an oxidative burst in macrophages and neutrophils, and induces release of histamine in basophils and mast cells. Alternatively, it may also bind to a nonsignaling GPCR termed C5L2 whose function is yet to be determined.
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Keywords	C5;C5A;Complement Component C5a;HE
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GENE INFORMATION

Entrez Gene ID	15139
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