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PRODUCT DATASHEET

Anti-Complement C5a/C5a(desArg) Anaphylatoxin Antibody

Product Details

Available Variants	100 uL (SKU:GAU 025-05-010) 400 uL (SKU:GAU 025-05-04) 1000 uL (SKU:GAU 025-05-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	C17/5
Gene Name	C5
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, WB
Species Reactivity	Human, Monkey
Immunogen	Purified human C5a
Specificity	GAU 025-05 binds to a neoepitope exposed on C5a/C5a(desArg).
Storage	2-8°C without exposure to light
UniProt ID	P01031 UniProt Summary: Precursor of the C5a anaphylatoxin and complement C5b components of the complement pathways, which consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:12878586, PubMed:18204047, PubMed:30643019, PubMed:6554279). Activated

	downstream of classical, alternative, lectin and GZMK complement pathways (PubMed:12878586, PubMed:18204047, PubMed:30643019, PubMed:39914456, PubMed:39814882, PubMed:6554279). {ECO:0000269|PubMed:12878586, ECO:0000269|PubMed:18204047, ECO:0000269|PubMed:30643019, ECO:0000269|PubMed:39814882, ECO:0000269|PubMed:39914456, ECO:0000269|PubMed:6554279}.; [Complement C5b]: Component of the membrane attack complex (MAC), a multiprotein complex activated by the complement cascade, which inserts into a target cell membrane and forms a pore, leading to target cell membrane rupture and cell lysis (PubMed:26841837, PubMed:27052168, PubMed:30552328, PubMed:30643019). Complement C5b is generated following cleavage by C5 convertase and initiates formation of the MAC complex: C5b binds sequentially C6, C7, C8 and multiple copies of the pore-forming subunit C9 (PubMed:30552328, PubMed:30643019). During MAC complex assembly, the C5b6 subcomplex, composed of complement C5b and C6, associates with the outer leaflet of target cell membrane, reducing the energy for membrane bending (PubMed:30552328, PubMed:32569291). {ECO:0000269|PubMed:26841837, ECO:0000269|PubMed:27052168, ECO:0000269|PubMed:30552328, ECO:0000269|PubMed:30643019, ECO:0000269|PubMed:32569291}.; [C5a anaphylatoxin]: Mediator of local inflammatory process released following cleavage by C5 convertase (PubMed:8182049, PubMed:9553099). Acts by binding to its receptor (C5AR1 or C5AR2), activating G protein-coupled receptor signaling and inducing a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes (PubMed:36806352, PubMed:37852260, PubMed:37169960, PubMed:8182049, PubMed:9553099). C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation (PubMed:342601, PubMed:37852260, PubMed:37169960, PubMed:5765461, PubMed:8182049, PubMed:9553099). {ECO:0000269|PubMed:342601, ECO:0000269|PubMed:36806352, ECO:0000269|PubMed:37169960, ECO:0000269|PubMed:37852260, ECO:0000269|PubMed:5765461, ECO:0000269|PubMed:8182049, ECO:0000269|PubMed:9553099}.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	727

Product Images



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