![BIO-RAD]

Datasheet: MCA6156GA

BATCH NUMBER 157929

Description:	MOUSE ANTI HUMAN C5/C5a
Specificity:	C5/C5a
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	557
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/50
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Human C5

External Database Links	**UniProt:**
	[P01031](#) [Related reagents](#)
	Entrez Gene:
	[727](#) C5 [Related reagents](#)

Synonyms	CPAMD4

Specificity	**Mouse anti Human C5/C5a antibody, clone 557**, recognizes an epitope on C5 and C5a. C5 is a component of all three complement activation pathways (classical, lectin and alternative), which lead to its cleavage by C5 convertase. Cleavage of C5 results in the formation of C5b, which initiates pathogenic lysis and C5a, a potent inflammatory mediator. C5a is a ligand for the G protein coupled receptors, C5aR1 and C5aR2 (also known as C5L2) through which its inflammatory functions are controlled ([Merle *et al.* 2015](#)). These receptors are expressed ubiquitously but are found at its highest levels on the surface of immune cells, including macrophages, neutrophils and T cells. The inflammatory responses mediated by C5a are chemotaxis, leukocyte degranulation, vascular permeability and cytokine plus chemokine production. Beyond innate immunity, C5a plays a role in organ development, tissue regeneration and hematopoiesis ([Zhang *et al.* 2017](#)).

Storage	Store at +4ºC or at -20ºC if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6156GA 10040

Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	[HRP](#)
Rabbit Anti Mouse IgG (STAR12...)	[RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...)	[Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...)	[RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...)	[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...)	[HRP](#)
Goat Anti Mouse IgG (STAR70...)	[FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...)   Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Rabbit Anti Mouse IgG (STAR9...)   FITC

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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