

For Research Use Only

CoraLite® Plus 488-conjugated C3 Recombinant monoclonal antibody

Catalog Number: CL488-87386



Basic Information

Catalog Number: CL488-87386	GenBank Accession Number: NM_000064.4	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 718	CloneNo.: 252159E1
Isotype: IgG	UNIPROT ID: P01024	Recommended Dilutions: IF/ICC: 1:50-1:500
Immunogen Catalog Number: EG4880	Full Name: complement component 3	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 187 kDa	
	Observed MW: 115-120 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human	

Background Information

The complement system is an important effector that bridges the innate and adaptive immune systems (PMID: 20010915). The third component of complement, C3, plays a central role in activating the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways (PMID: 11414361). Human C3 (190-195 kDa), composed of α and β chains (115-120 and 75 kDa, respectively), is cleaved into C3a and C3b by C3 convertase. C3b is composed of the α' chain and β chain (PMID: 27210597). Factor I cleaves the α' chain of C3b to 68 kDa and 43 kDa degradation products (iC3b) (PMID: 25395424; 14527961). This antibody was raised against 672-1663 aa of the human C3 protein.

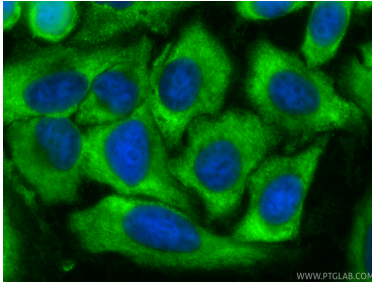
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 C3 antibody (CL488-87386, Clone: 252159E1) at dilution of 1:200.