

For Research Use Only

C3 Recombinant monoclonal antibody

Catalog Number: 87386-1-RR



Basic Information

Catalog Number: 87386-1-RR	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: WB: 1:5000-1:50000 IHC: 1:500-1:2000
Immunogen Catalog Number: EG4880	Full Name: complement component 3	
	Calculated MW: 187 kDa	
	Observed MW: 115-120 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human plasma,

IHC : human liver cancer tissue,

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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

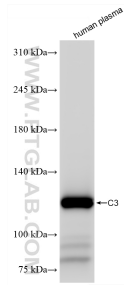
T: 4006900926

E: Proteintech-CN@ptglab.com

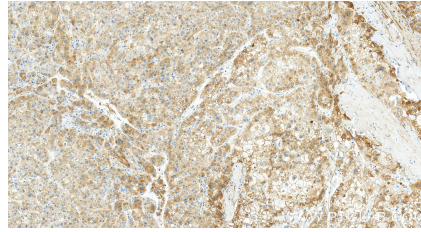
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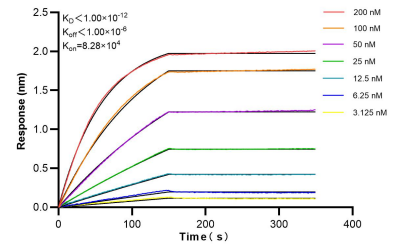
Selected Validation Data



Human plasma was subjected to SDS PAGE followed by western blot with 87386-1-RR (Complement component C3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 87386-1-RR (C3 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 87386-1-RR against Human C3 were performed. The affinity constant is below 1 pM.