

Product Name: KD-Validated Complement C3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01674

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 187.1kDa

Antigen Information

Gene Name	C3 C1QBP; Complement C3; CPAMD1; ARMD9; C3 And PZP-Like Alpha-2-Macroglobulin Domain-Containing Protein 1; Complement Component C3a; Complement Component C3b;
Alternative Names	Complement Component 3; C3a Anaphylatoxin; Prepro-C3; C3a; C3b; Epididymis Secretory Sperm Binding Protein Li 62p; Acylation-Stimulating Protein Cleavage Product; HEL-S-62p; AHUS5; ASP; C3A; C3B
Gene ID	718.0
SwissProt ID	P01024
Immunogen	A synthesized peptide derived from human C3 / C3a

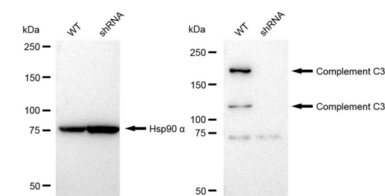
Background

Complement component C3 plays a central role in the activation of complement system. Its activation is required for both classical and alternative complement activation pathways. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form the mature protein, which is then further processed to generate numerous peptide products. The C3a peptide, also known as the C3a anaphylatoxin, modulates inflammation and possesses antimicrobial activity. Mutations in this gene are associated with atypical hemolytic uremic syndrome and age-related macular degeneration in human patients. [provided by RefSeq, Nov 2015]

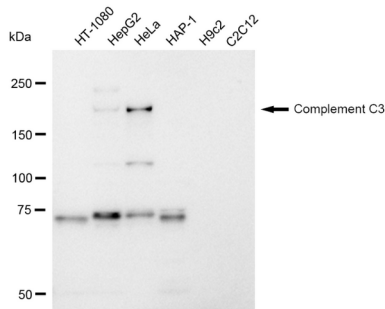
Research Area

Immunology, Neuroscience, Signal Transduction

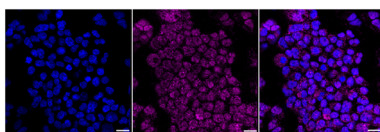
Image Data



Western blotting analysis using complement C3 antibody (KVA01674). Complement C3 expression in wild type (WT) and complement C3 (C3) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with complement C3 antibody (KVA01674, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Complement C3 antibody (KVA01674). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Complement C3 antibody (KVA01674, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Complement C3 antibody (KVA01674, 1:1,000). Nuclei were stained blue with DAPI; Complement C3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.