C3 antibody [M68]

Cat. No. GTX02807

Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Applications	WB, IP
Reactivity	Human

Package
100 µl

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1-5 µg/ml
IP	Assay dependent

Note : For the best detection sensitivity, the samples should be treated under non-boiled and non-reducing conditions.

Not tested in other applications.

Calculated MW	187 kDa. (Note)
Product Note	The antibody detects the 50-kDa complement C3 fragment. The identified sequences include thee segments: a.a. 1321-1600, a.a. 200-440, and a.a. 741-930.

Properties

Form	Liquid
Buffer	PBS, 50% Glycerol
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Human native protein
Purification	Purified by protein A
Purity	>90% determined by SDS-PAGE
Conjugation	Unconjugated

For full product information, images and publications, please visit our website.

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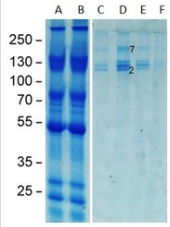
Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

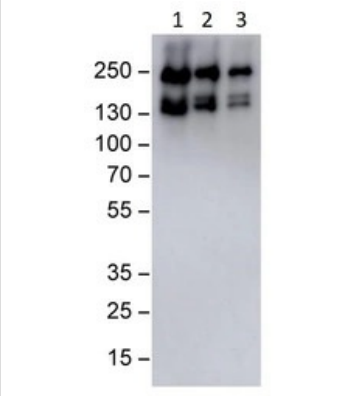
Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



GTX02807 IP Image

The two groups of complement C3 proteins can be purified by GTX02807 C3 antibody [M68] immunoaffinity chromatography from the partially purified milk fractions. Human milk proteins were loaded onto CM-Sepharose 4B column and proteins, including C3, were eluted by different salt (NaCl) concentration. The slat concentration was smaller than 0.3 N. The CM low salt fractions were collected and loaded to the mAb M68-Sepharose column to purify C3. After washing the immunoaffinity column, the captured proteins were eluted by 0.1 N glycine buffer pH 2.4. The eluates were collected into several fractions, E1, E2, E3, E4, E5 and E6. E1-E4 fractions were analyzed by SDS-PAGE and the eluted proteins were stained by CBB.
The protein band 2 and 7 as indicated are sliced out and subjected to MS/MS protein identification (by Prottech Inc.), confirming these bands to be complement C3. The relative abundance of peptides matching to C3 is 98% for band 2 and 96% for band 7.
For the best detection sensitivity, the samples should be treated under non-boiled and non-reducing conditions.
Lane A : Input (partially purified milk fractions)
Lane B : Flow through
Lane C : Elution 1
Lane D : Elution 2
Lane E : Elution 3
Lane F : Elution 4
Loading : 20 µl



GTX02807 WB Image

Complement C3 can be detected in human milk by western blot analysis under non-reducing non-boiled conditions using the GTX02807 C3 antibody [M68] as two groups of protein bands.
For the best detection sensitivity, the samples should be treated under non-boiled and non-reducing conditions.
Lane 1 : 10 µl
Lane 2 : 5 µl
Lane 3 : 2 µl

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