

Anti-Complement C3 Antibody [10-B3]

M1510-40



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P, ELISA
Molecular Wt:	Predicted band size: 187 kDa
Clone number:	10-B3

Description:	C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates. Derived from proteolytic degradation of complement C3, C3a anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts as a chemoattractant for neutrophils. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. A rare defect of the complement classical pathway. Patients develop recurrent, severe, pyogenic infections because of ineffective opsonization of pathogens. Some patients may also develop autoimmune disorders, such as arthralgia and vasculitic rashes, lupus-like syndrome and membranoproliferative glomerulonephritis.
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Immunogen:	Recombinant protein within Human C3 aa 1,464-1,663 / 1,663
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Subcellular location:	Secreted.
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Database links:	SwissProt: P01024 Human
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Recommended Dilutions:

WB	1:1,000
IHC-P	1:200
ELISA	1:1,000

Storage Buffer:	1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
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Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.
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Purity:	Protein A affinity purified.
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Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

**Fig1: 1. High specificity**

Due to their recognition of only one epitope, mAbs are best known for their high specificity. Producing highly specific monoclonal antibodies supplies researchers with the benefits of improved target identification and less background signal.

2. Batch-to-batch reproducibility

Since a monoclonal antibody is made by cloning a unique white blood cell. All subsequent products developed from this antibody trace back to its original, unique parent cell. This makes for great batch-to-batch reproducibility.

3. Guaranteed long term supply

Hybridoma serves as a continuous source of monoclonal antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Hao W et al. Gut dysbiosis induces the development of depression-like behavior through abnormal synapse pruning in microglia-mediated by complement C3. Microbiome. 2024 Feb
2. Xu L et al. Inhibition of complement C3 signaling ameliorates locomotor and visual dysfunction in autoimmune inflammatory diseases. Mol Ther. 2023 Sep

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