CO3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CO3, Polyclonal Antibody
Full Product Name	CO3 Polyclonal Antibody
Product Gene Name	anti-CO3 antibody
Product Synonym Names	Complement C3; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; Complement C3 beta chain; Complement C3 alpha chain; C3a anaphylatoxin; Acylation stimulating protein; ASP; C3adesArg; Complement C3b alpha' chain; Complement C3c alpha' chain fragment 1; Complement C3dg fragment; Complement C3g fragment; Complement C3d fragment; Complement C3f fragment; Complement C3c alpha' chain fragment 2; C3; CPAMD1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	182
OMIM	120700
3D Structure	ModBase 3D Structure for P01024
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CO3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CO3 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-CO3 antibody	MBS8531493 is an antibody targeting CO3. Also known as CO3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CO3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CO3. It may not necessarily be applicable to this product.

NCBI GI #	115298678
NCBI GeneID	718
NCBI Accession #	NP_000055.2
UniProt Primary Accession #	P01024
UniProt Secondary Accession #	A7E236
UniProt Related Accession #	P01024

GenBank Nucleotide #	NM_000064.3
NCBI Official Full Name	complement C3 preproprotein
NCBI Official Synonym Full Names	complement C3
NCBI Official Symbol	C3
NCBI Official Synonym Symbols	ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1; HEL-S-62p
UniProt Protein Name	Complement C3
UniProt Synonym Protein Names	C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1
Protein Family	Zinc finger protein
UniProt Gene Name	C3
UniProt Synonym Gene Names	CPAMD1; C3bc; ASP
NCBI Protein Information	complement C3
NCBI Summary for CO3	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]
UniProt Comments for CO3	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.
Research Articles on CO3	**1.** findings revealed a significant association between variant p.R102G in complement component C3 gene with exudative age-related macular degeneration in the Tunisian population
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