Complement Component 7 (C7) Antibody Pair Kit for Rat

PRODUCT OVERVIEW

Product Name	Complement Component 7 (C7), Antibody Pair Kit
Full Product Name	Rat Complement Component 7 (C7) Antibody Pair Kit (with Standard)
Product Gene Name	C7 antibody pair kit
Species Reactivity	Rat
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	31.2-2000ng/mL
Molecular Weight	93,518 Da
OMIM	J03507 mRNA
3D Structure	ModBase 3D Structure for P10643
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Standard	Recombinant C7 (Lyophilized, 1 vial-10ug)
Capture Antibody	Rabbit polyclonal antibody (Liquid, 1 vial-400mug/800muL)
Detection Antibody	Biotinylated Rabbit polyclonal antibody (Liquid, 1 vial-100mug/500muL)
Producte Usage	Raw materials can be used for preparation of 5x96T or 10x96T ELISA Kits.
Antibody Support Pack	Antibody Support Pack (Buffer Pack) is sold separately as catalog #MBS2090685
Product Categories/Family for C7 antibody pair kit	Infection immunity; Immune molecule
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for C7 antibody pair kit	ELISA (EIA), Chemiluminescence Immunoassays (CLIA), ELISPOT, Luminex
Related Product Information for C7 antibody pair kit	MBS2099372 is an antibody pair kit targeting C7. Also known as Rat Complement Component 7 (C7) Antibody Pair Kit (with Standard). Reactive in Rat.
Other Notes	Small volumes of C7 antibody pair kit 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 C7. It may not necessarily be applicable to this product.

NCBI GI #	45580688
NCBI GeneID	730
NCBI Accession #	NP_000578.2
UniProt Primary Accession #	P10643
UniProt Secondary Accession #	Q6P3T5; Q92489

UniProt Related Accession #	P10643
GenBank Nucleotide #	NM_000587.3
NCBI Official Full Name	complement component C7
NCBI Official Synonym Full Names	complement C7
NCBI Official Symbol	C7
UniProt Protein Name	Complement component C7
Protein Family	Complement component
UniProt Gene Name	C7
NCBI Protein Information	complement component C7
NCBI Summary for C7	This gene encodes a serum glycoprotein that forms a membrane attack complex together with complement components C5b, C6, C8, and C9 as part of the terminal complement pathway of the innate immune system. The protein encoded by this gene contains a cholesterol-dependent cytolysin/membrane attack complex/perforin-like (CDC/MACPF) domain and belongs to a large family of structurally related molecules that form pores involved in host immunity and bacterial pathogenesis. This protein initiates membrane attack complex formation by binding the C5b-C6 subcomplex and inserts into the phospholipid bilayer, serving as a membrane anchor. Mutations in this gene are associated with a rare disorder called C7 deficiency. [provided by RefSeq, Nov 2016]
UniProt Comments for C7	Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. C7 serves as a membrane anchor.
Research Articles on C7	**1.** Two case reports of C7 deficiency leading to recurrent meningitis and other bacterial infections are described.
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