

Mouse Complement C5a ELISA Kit

Catalog No: #EK5460



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Description

Product Name	Mouse Complement C5a ELISA Kit
Specificity	Mouse
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	E.coli,N679-R755
Other Names	Complement C5; Hemolytic complement; Complement C5 beta chain; Complement C5 alpha chain; C5a anaphylatoxin; Complement C5 alpha" chain; C5; Hc;
Accession No.	P06684
Uniprot	P06684
GeneID	15139;
Cell Localization	Secreted.

Application Details

sensitivity:10pg mlDetect Range:15.6pg ml-1000pg ml
sample_type:cell culture supernates cell lysates tissue homogenates serum and plasma (heparin EDTA).
capture_antibody:monoclonal antibody from ratdetection_antibody:polyclonal antibody from goat
gene_name:C5protein_name:Complement C5
gene_full_name:Complement C5
tissue_specificity:sequence_similarities:Contains 1 anaphylatoxin-like
domain.tmb_incubation:25-30minresearch_category:epigenetics and nuclear signaling|transcription|domain families|hlh / leucine zipper|hlh|immunology|innate immunity|mast cells|chip"ing antibodies

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Complement C5a

Background

protein_function: Activation of C5 by a C5 convertase initiates thespontaneous assembly of the late complement components, C5-C9,into the membrane attack complex. C5b has a transient binding sitefor C6. The C5b-C6 complex is the foundation upon which the lyticcomplex is assembled.C5a is a protein fragment released from complement component C5. This gene is mapped to 9q33.2. The protein encoded by this gene is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is comprised of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components. Mutations in this gene cause complement component 5 deficiency, a disease where patients show a propensity for severe recurrent infections. Defects in this gene have also been linked to susceptibility to liver fibrosis and to rheumatoid arthritis.

Note: This product is for in vitro research use only