



Human C4A peptide (DAG-P0225)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes the acidic form of complement factor 4, part of the classical activation pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus and type I diabetes mellitus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
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Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 anaphylatoxin-like domain.Contains 1 NTR domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	C4A complement component 4A (Rodgers blood group) [Homo sapiens (human)]
Official Symbol	C4A
Synonyms	C4A; complement component 4A (Rodgers blood group); C4; RG; C4S; CO4; C4A2; C4A3;

C4A4; C4A6; C4AD; CPAMD2; complement C4-A; acidic C4; C4A anaphylatoxin; Rodgers form of C4; acidic complement C4; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2;

Entrez Gene ID	720
mRNA Refseq	NM_001252204.1
Protein Refseq	NP_001239133.1
UniProt ID	P0COL4
Chromosome Location	6p21.3
Pathway	Activation of C3 and C5, organism-specific biosystem; Allograft Rejection, organism-specific biosystem; Complement Activation, Classical Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Immune System, organism-specific biosystem; Initial triggering of complement, organism-specific biosystem; Innate Immune System, organism-specific biosy
Function	endopeptidase inhibitor activity;