



Human CD4 peptide (DAG-P0015)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Aug 2010]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 3 Ig-like C2-type (immunoglobulin-like) domains.Contains 1 Ig-like V-type (immunoglobulin-like) 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	CD4 CD4 molecule [Homo sapiens (human)]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3;

Entrez Gene ID	920
mRNA Refseq	NM_000616.4
Protein Refseq	NP_000607.1
UniProt ID	B4DT49
Chromosome Location	12p13.31
Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-defensins, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Arf1 pathway, organism-specific biosystem; Binding and entry of HIV virion, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-spec
Function	MHC class II protein binding; coreceptor activity; enzyme binding; extracellular matrix structural constituent; glycoprotein binding; protein binding; protein homodimerization activity; protein kinase binding; receptor activity; transmembrane signaling re