



Human CD74 peptide (DAG-P0335)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene associates with class II major histocompatibility complex (MHC) and is an important chaperone that regulates antigen presentation for immune response. It also serves as cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF) which, when bound to the encoded protein, initiates survival pathways and cell proliferation. This protein also interacts with amyloid precursor protein (APP) and suppresses the production of amyloid beta (Abeta). Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 thyroglobulin type-1 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	CD74 CD74 molecule, major histocompatibility complex, class II invariant chain [Homo sapiens (human)]
Official Symbol	CD74
Synonyms	CD74; CD74 molecule, major histocompatibility complex, class II invariant chain; II; DHLAG; HLADG; Ia-GAMMA; HLA class II histocompatibility antigen gamma chain; p33; HLA-DR-gamma; MHC HLA-DR gamma chain; Ia-associated invariant chain; gamma chain of class II

antigens; HLA-DR antigens-associated invariant chain; CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated);

Entrez Gene ID	972
mRNA Refseq	NM_001025158.2
Protein Refseq	NP_001020329.1
UniProt ID	P04233
Chromosome Location	5q32
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; Immune System, organism-specific biosystem; MHC class II antigen presentation, organism-specific biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;
Function	MHC class II protein binding; MHC class II protein binding; beta-amyloid binding; cytokine binding; cytokine receptor activity; identical protein binding; macrophage migration inhibitory factor binding; nitric-oxide synthase binding; protein binding;