



Human CXCR2 peptide (DAG-P0397)

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

PRODUCT INFORMATION

Antigen Description

The protein encoded by this gene is a member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. Alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2009]

Conjugate

Unconjugated

Sequence Similarities

Belongs to the G-protein coupled receptor 1 family.

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

[CXCR2 chemokine \(C-X-C motif\) receptor 2 \[Homo sapiens \(human\) \]](#)

Official Symbol

CXCR2

Synonyms

CXCR2; chemokine (C-X-C motif) receptor 2; CD182; IL8R2; IL8RA; IL8RB; CMKAR2;

CDw128b; C-X-C chemokine receptor type 2; CXC-R2; CXCR-2; IL-8R B; GRO/MGSA receptor; IL-8 receptor type 2; interleukin 8 receptor B; chemokine (CXC) receptor 2; interleukin 8 receptor, beta; interleukin 8 receptor type 2; interleukin-8 receptor type B; CXCR2 gene for IL8 receptor type B; high affinity interleukin-8 receptor B;

Entrez Gene ID	3579
mRNA Refseq	NM_001168298.1
Protein Refseq	NP_001161770.1
UniProt ID	P25025
Chromosome Location	2q35
Pathway	Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infe
Function	C-X-C chemokine receptor activity; interleukin-8 binding; interleukin-8 receptor activity; protein binding; signal transducer activity;