

## Recombinant Full Length Human CXCR2 Protein, GST-tagged

Cat. No. CXCR2-2315HF    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CXCR2 full-length ORF ( NP_001548.1, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal. |
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| <b>Species</b> | Human |
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|               |                           |
|---------------|---------------------------|
| <b>Source</b> | In Vitro Cell Free System |
|---------------|---------------------------|

|                      |                 |
|----------------------|-----------------|
| <b>ProteinLength</b> | 360 amino acids |
|----------------------|-----------------|

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| <b>Description</b> | <p>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]</p> |
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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | 67.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | <p>MEDFNMESDSFEDFWKGEDLSNYSYSTLPPFLD AAPCEPESLEINKYFVVIYALV<br/> FLLSLLGNSLVMLVILYSRVGRSVTDVYLLNLALADLLFALTLP IWAASKVNGWIFGTF<br/> LCKVVSLLKEVNFYSGILLACISVD RYLAIVHATRTL TQKRYLVKFICLSIWGLSLLLAL<br/> PVLLFRRTVYSSNVSPACYEDMGNNTANWRMLLRILPQSFGFIVPLLIMLFCYGF TLR<br/> TLFKAHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTL MRTQVIQETCERRNHIDR<br/> ALDATEILGILHSCLNPLIYAFIGQKFRHGLLKILAIHGLISKDSL PKDSRPSFVGSSSGH<br/> TSTTL</p> |
| <b>Applications</b>     | <p>Enzyme-linked Immunoabsorbent Assay<br/> Western Blot (Recombinant protein)<br/> Antibody Production<br/> Protein Array</p>                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | CXCR2 chemokine (C-X-C motif) receptor 2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>  | CXCR2                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | <p>CXCR2; chemokine (C-X-C motif) receptor 2; IL8RB, interleukin 8 receptor, beta; C-X-C chemokine receptor type 2; CD182; CMKAR2; CXCR-2; 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</p>                                                                              |

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receptor type B; CXCR2 gene for IL8 receptor type B; high affinity interleukin-8 receptor B; IL8R2; IL8RA; IL8RB; CDw128b;

|                       |                              |
|-----------------------|------------------------------|
| <b>Gene ID</b>        | <a href="#">3579</a>         |
| <b>mRNA Refseq</b>    | <a href="#">NM_001168298</a> |
| <b>Protein Refseq</b> | <a href="#">NP_001161770</a> |
| <b>MIM</b>            | <a href="#">146928</a>       |
| <b>UniProt ID</b>     | <a href="#">P25025</a>       |

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