

## Recombinant Human IL12RB2

**Cat. No.** IL12RB2-29640TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment of Human IL12RB2 with an N-terminal proprietary tag;<br>Predicted MW 37.73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>      | 110 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>        | <p>The protein encoded by this gene is a type I transmembrane protein identified as a subunit of the interleukin 12 receptor complex. The coexpression of this and IL12RB1 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. The expression of this gene is up-regulated by interferon gamma in Th1 cells, and plays a role in Th1 cell differentiation. The up-regulation of this gene is found to be associated with a number of infectious diseases, such as Crohns disease and leprosy, which is thought to contribute to the inflammatory response and host defense.</p> |
| <b>Molecular Weight</b>   | 37.730kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue specificity</b> | Isoform 2 is expressed at similar levels in both naive and activated T-cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|---------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                               |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                           |
| <b>Sequences of amino acids</b> | CINSDEIQICGAEIFVGVAPEQPQNLSCIQKGEQGTVACT WERGRDTHLYTEYTLQL<br>SGPKNLTWQKQCKDIYCDYLDLF INLTPEPESNFTAKVTAVNSLGSSSSLPS |
| <b>Sequence Similarities</b>    | Belongs to the type I cytokine receptor family. Type 2 subfamily.Contains 5 fibronectin type-III domains.           |

## GENE INFORMATION

|                            |                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------|
| <b>Gene Name</b>           | IL12RB2 interleukin 12 receptor, beta 2 [ Homo sapiens ]                          |
| <b>Official Symbol</b>     | IL12RB2                                                                           |
| <b>Synonyms</b>            | IL12RB2; interleukin 12 receptor, beta 2; interleukin-12 receptor subunit beta-2; |
| <b>Gene ID</b>             | 3595                                                                              |
| <b>mRNA Refseq</b>         | NM_001559                                                                         |
| <b>Protein Refseq</b>      | NP_001550                                                                         |
| <b>MIM</b>                 | 601642                                                                            |
| <b>Uniprot ID</b>          | Q99665                                                                            |
| <b>Chromosome Location</b> | 1p31.3-p31.2                                                                      |

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|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; IL12-mediated signaling events, organism-specific biosystem; IL27-mediated signaling events, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; |
| <b>Function</b> | cytokine receptor activity; protein kinase binding; receptor activity;                                                                                                                                                                                                                                               |

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