

# Product Information

## **MemDX™ Antibody Discovery - Mouse IL-2 R beta&IL-2 R alpha&IL-2 R gamma (27-240(IL-2RB)&22-236(IL-2RA)&23-263(IL-2RG)) Membrane Protein, Partial**

Cat. No.: **MPX4727K**

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

This membrane protein is Mouse IL-2 R beta&IL-2 R alpha&IL-2 R gamma. We provide this protein to facilitate your membrane protein antibody discovery and development.

### Product Specifications

#### Host Species

Mouse

#### Target Protein

IL-2 R beta&IL-2 R alpha&IL-2 R gamma

#### Protein Length

ECD

#### Protein Class

Receptor

#### Molecular Weight

51.5 kDa (IL-2RB) and 79.4 kDa (IL-2RA&IL-2RG)

#### TMD

1

#### Sequence

AA Ala 27 - Glu 240 & Glu 22 - Lys 236 & Trp 23 - Ala 263 (Accession # P16297-1(IL-2RB) & P01590-1(IL-2RA) & P34902-1(IL-2RG))

### Product Description

#### Activity

Yes

#### Expression Systems

HEK293

#### Tag

Subunit IL-2RB is fused with a human IgG1 Fc tag at the C-terminus and subunit IL-2RA&IL-2RG is fused with a human IgG1 Fc tag at the C-terminus.

**Protein Format**

Soluble

**Form**

LYOPH

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU per µg by the LAL method

**Purity**

>95% as determined by SDS-PAGE.

**Buffer**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

IL-2 R beta&IL-2 R alpha&IL-2 R gamma

**Full Name**

Interleukin 2 receptor, beta chain & Interleukin 2 receptor, alpha chain & Interleukin 2 receptor, gamma chain

**Introduction**

The interleukin 2 receptor is composed of alpha and beta subunits. The beta subunit encoded by this gene is very homologous to the human beta subunit and also shows structural similarity to other cytokine receptors. Enables interleukin-2 binding activity and interleukin-2 receptor activity. Acts upstream of or within several processes, including Notch signaling pathway; activation-induced cell death of T cells; and regulation of T cell proliferation. Located in external side of plasma membrane. Is expressed in bone marrow. Used to study Sjogren's syndrome and inflammatory bowel disease. Human ortholog(s) of this gene implicated in immunodeficiency 41; lymphopenia; multiple sclerosis; type 1 diabetes mellitus; and type 1 diabetes mellitus 10. Orthologous to human IL2RA (interleukin 2 receptor subunit alpha). This gene encodes a transmembrane protein that is a common subunit of several interleukin receptor complexes. These receptors are comprised of alpha and beta subunits in addition to this gamma subunit. Signalling through this pathway is important in immune cell differentiation and function. Alternative splicing results in multiple transcript variants.

**Alternative Names**

IL-2 R beta&IL-2 R alpha&IL-2 R gamma; IL-2RB&IL-2RA&IL-2RG

**Gene ID**

[16185](#) & [16184](#) & [16186](#)

**UniProt ID**

[P16297](#) & [P01590](#) & [P34902](#)