

Product Information

MemDX™ Antibody Discovery - Human IL-3 R alpha / CD123 (19-305) Membrane Protein, Partial, -His tag

Cat. No.: **MP0368F**

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

This membrane protein is Human IL-3 R alpha / CD123 (19-305). It has been tested in SDS-PAGE, SPR, BLI. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species

Human

Target Protein

IL-3 R alpha / CD123

Protein Length

ECD

Molecular Weight

The protein has a calculated MW of 35.0 kDa. The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence

AA Thr 19 - Arg 305 (Accession # P26951-1).

Product Description

Activity

Yes

Application

SDS-PAGE, SPR, BLI

Expression Systems

HEK293

Tag

His tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

Target

Target Protein

IL-3 R alpha / CD123

Full Name

interleukin 3 receptor subunit alpha

Introduction

The protein encoded by this gene is an interleukin 3 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3.

This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found.

Alternative Names

IL3R; CD123; IL3RX; IL3RY; IL3RAY; hIL-3Ra; interleukin-3 receptor subunit alpha; CD123 antigen; IL-3 receptor subunit alpha; IL-3R subunit alpha; IL-3R-alpha; IL-3RA; interleukin 3 receptor, alpha (low affinity)

Gene ID

[3563](#)

UniProt ID

[P26951](#)