Recombinant Human IL-3RA/CD123 Protein

Catalog No.: RP00121

Sequence Information

Species
Human

Gene ID
3563

Swiss Prot
P26951

Tags
C-His

Synonyms
IL3RA,CD123,IL3R,IL3RAY,IL3RX, IL3RY,hIL-3Ra

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
33.82 kDa

Observed MW
50-65 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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.

Basic Information

Description
Recombinant Human IL-3RA/CD123 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Lys20-Arg305) of human IL3RA/CD123 (Accession #NP_002174.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized recombinant Human IL3 at 4 μg/mL (100 μL/well) can bind recombinant Human IL3RA, the EC_{50} of Human IL3RA is 5.3 μg/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

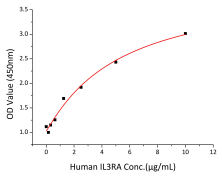
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

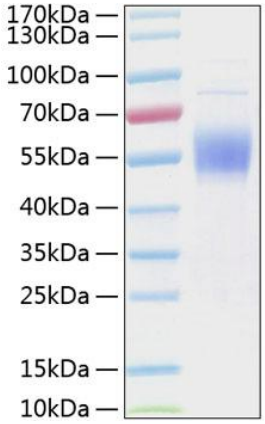
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Immobilized recombinant Human IL3 at 4μg/mL (100μL/well) can bind recombinant Human IL3RA, the EC_{50} of Human IL3RA is 5.3 μg/mL.



Recombinant Human IL-3RA/CD123 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.