10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-IL-15 Reference Antibody (DISC0280(Fab))

Catalog # APR11698

## Product Information

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|---|---|
| **Application** | Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA |
| **Primary Accession** | P40933 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | Fab |
| **Calculated MW** | 18086 |

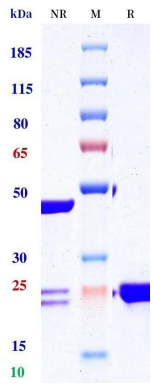
## Additional Information

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|---|---|
| **Target/Specificity** | IL-15 |
| **Expression system** | CHO |

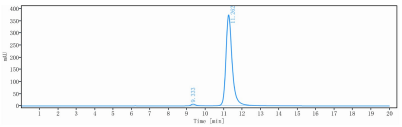
## Protein Information

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|---|---|
| **Name** | IL15 |
| **Function** | Cytokine that plays a major role in the development of inflammatory and protective immune responses to microbial invaders and parasites by modulating immune cells of both the innate and adaptive immune systems (PubMed:15123770). Stimulates the proliferation of natural killer cells, T-cells and B-cells and promotes the secretion of several cytokines (PubMed:8178155, PubMed:9326248). In monocytes, induces the production of IL8 and monocyte chemotactic protein 1/CCL2, two chemokines that attract neutrophils and monocytes respectively to sites of infection (PubMed:9326248). Unlike most cytokines, which are secreted in soluble form, IL15 is expressed in association with its high affinity IL15RA on the surface of IL15-producing cells and delivers signals to target cells that express IL2RB and IL2RG receptor subunits (PubMed:10233906, PubMed:23104097, PubMed:8026467). Binding to its receptor triggers the phosphorylation of JAK1 and JAK3 and the recruitment and subsequent phosphorylation of signal transducer and activator of transcription-3/STAT3 and STAT5 (PubMed:7568001). In mast cells, induces the rapid tyrosine phosphorylation of STAT6 and thereby controls mast cell survival and release of cytokines such as IL4 (By similarity). |
| **Cellular Location** | [Isoform IL15-S48AA]: Secreted. |
| **Tissue Location** | Most abundant in placenta and skeletal muscle. It is also detected in the heart, lung, liver and kidney. IL15-S21AA is preferentially expressed in tissues such as testis and thymus |

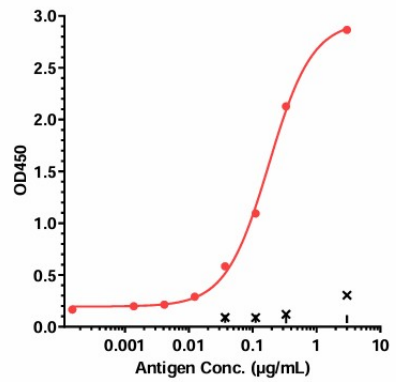
## Images




Anti-IL-15 Reference Antibody (DISC0280(Fab)) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-IL-15 Reference Antibody (DISC0280(Fab)) is 98.45%, determined by SEC-HPLC.




Immobilized Human IL 15, His Tag. at 2 ug/mL can bind DISC0280(Fab), The EC50 is 0.1801 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.