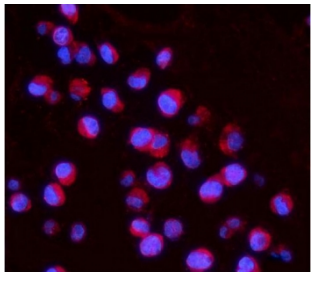
IL15RA Antibody / Immune Cell Activation Receptor Antibody (R32936)

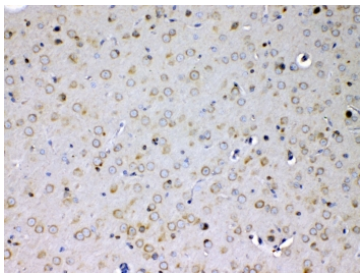
Catalog No.	Formulation	Size
R32936	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

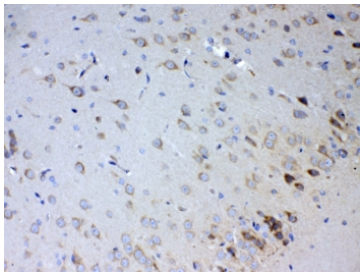
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13261
RRID	AB_3752097
Applications	Western Blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA (recombinant human protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This IL15RA Antibody / Immune Cell Activation Receptor Antibody is available for research use only.



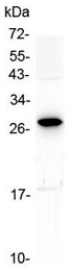
IL15RA Antibody Human K562 Cell IF. Immunofluorescent staining of FFPE human K562 cells using IL15RA Antibody. HIER was performed in pH 6 citrate buffer. A red fluorescent secondary antibody was used for detection, and nuclei were counterstained with DAPI (blue). IL15RA Antibody, an Immune Cell Activation Receptor Antibody, demonstrates predominantly cytoplasmic staining with membranous accentuation in K562 cells, consistent with the expected localization of IL15RA.



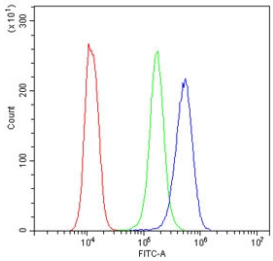
IL15RA Antibody Mouse Brain IHC. Immunohistochemical staining of FFPE mouse brain tissue using IL15RA Antibody at 1 ug/ml. HIER was performed in pH 6 citrate buffer. An HRP-conjugated secondary antibody with DAB substrate was used for detection. IL15RA Antibody, an Immune Cell Activation Receptor Antibody, demonstrates predominantly membranous and cytoplasmic staining of cells throughout the brain tissue, consistent with the expected localization of IL15RA.



IL15RA Antibody Rat Brain IHC. Immunohistochemical staining of FFPE rat brain tissue using IL15RA Antibody at 1 ug/ml. HIER was performed in pH 6 citrate buffer. An HRP-conjugated secondary antibody with DAB substrate was used for detection. IL15RA Antibody, an Immune Cell Activation Receptor Antibody, demonstrates predominantly membranous and cytoplasmic staining of scattered cells throughout the brain tissue, consistent with the expected localization of IL15RA.



IL15RA Antibody Human Placenta WB. Western blot analysis of human placental tissue using IL15RA Antibody at 0.5 ug/ml. An HRP-conjugated secondary antibody with ECL substrate was used for detection. IL15RA Antibody, an Immune Cell Activation Receptor Antibody, detects a prominent band at approximately 28 kDa, consistent with the predicted molecular weight of IL15RA.



IL15RA Antibody Human K562 Cell FACS. Flow cytometric analysis of human K562 cells using IL15RA Antibody at 1 ug/million cells following blocking with goat serum. A fluorescently labeled secondary antibody was used for detection. IL15RA Antibody, an Immune Cell Activation Receptor Antibody, demonstrates a clear rightward shift in fluorescence intensity compared to the isotype control, indicating specific detection of IL15RA expression on K562 cells.

Description

IL15RA Antibody recognizes interleukin 15 receptor alpha (IL15RA/CD215), the high-affinity alpha subunit of the interleukin 15 receptor complex that is essential for IL-15-mediated immune regulation. Unlike many cytokine receptors, IL15RA binds IL-15 with exceptionally high affinity and presents the cytokine to neighboring lymphocytes through a unique mechanism known as trans-presentation. This specialized signaling process is required for the development, survival, and activation of natural killer (NK) cells, memory CD8-positive T cells, natural killer T cells, and subsets of intraepithelial lymphocytes. Because of this central role in coordinating innate and adaptive immunity, IL15RA Antibody is widely used to investigate cytokine receptor biology and immune cell activation.

IL15RA is expressed by dendritic cells, monocytes, macrophages, epithelial cells, fibroblasts, skeletal muscle, and numerous other cell types that regulate immune responses. Following IL-15 binding, signaling occurs through association with IL2RB and the common gamma chain receptor, leading to activation of JAK1, JAK3, STAT3, STAT5, PI3K/AKT, and MAPK pathways. These signaling cascades promote lymphocyte proliferation, cytotoxic activity, metabolic fitness, and long-term immune cell survival. Unlike IL-2 signaling, IL-15 preferentially supports memory T cells and NK cells without substantially expanding regulatory T cells, making IL15RA an attractive therapeutic target for enhancing antitumor immunity while limiting immune suppression. As an Immune Cell Activation Receptor Antibody, IL15RA Antibody is particularly valuable for studies examining lymphocyte activation and cytokine receptor function.

Abnormal IL15RA expression or signaling has been implicated in autoimmune disorders, chronic inflammatory diseases, viral infections, transplant rejection, leukemia, lymphoma, melanoma, and numerous solid tumors. Therapeutic strategies targeting the IL15RA pathway include recombinant IL-15/IL15RA complexes, agonists that enhance trans-presentation, and engineered cytokines designed to expand cytotoxic lymphocytes for cancer immunotherapy. Because IL15RA sits at the intersection of cytokine signaling, lymphocyte homeostasis, and immune surveillance, it has become an important biomarker and therapeutic target in both basic and translational immunology.

IL15RA Antibody, an Immune Cell Activation Receptor Antibody, provides a valuable tool for investigating IL-15 receptor expression, cytokine signaling, and immune cell function. Researchers use IL15RA Antibody to study NK cell biology, memory T-cell maintenance, immune activation, inflammatory disease, transplant immunology, and emerging immunotherapeutic approaches that harness IL-15 signaling to enhance antitumor and antiviral immunity.

Explore additional Immunology Antibodies for proteins involved in cytokine signaling, immune cell activation, NK cell biology, T-cell regulation, and host defense.

Application Notes

Optimal dilution of the IL15RA Antibody / Immune Cell Activation Receptor Antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids I31-T174 was used as the immunogen for the IL15RA antibody.

Storage

After reconstitution, the IL15RA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Interleukin 15 Receptor Alpha Antibody, IL-15R Alpha Antibody, CD215 Antibody, IL15R Antibody, IL15 Receptor Alpha Antibody, Cytokine Receptor Antibody

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