

ARG58796 anti-IL15RA antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IL15RA
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IL15RA
Species	Human
Immunogen	Recombinant protein corresponding to I31-T174 of Human IL15RA.
Conjugation	Un-conjugated
Alternate Names	sIL-15 receptor subunit alpha; sIL-15RA; Interleukin-15 receptor subunit alpha; IL-15R-alpha; IL-15RA; IL-15 receptor subunit alpha; CD antigen CD215; CD215; sIL-15R-alpha

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

Application Note IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

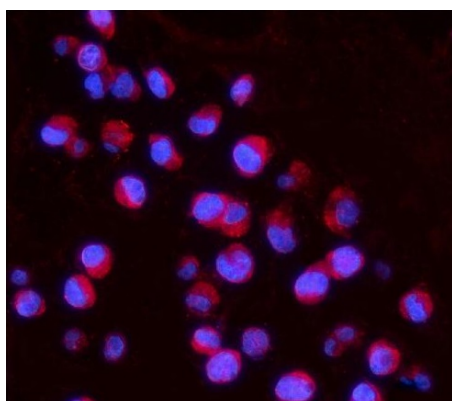
before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

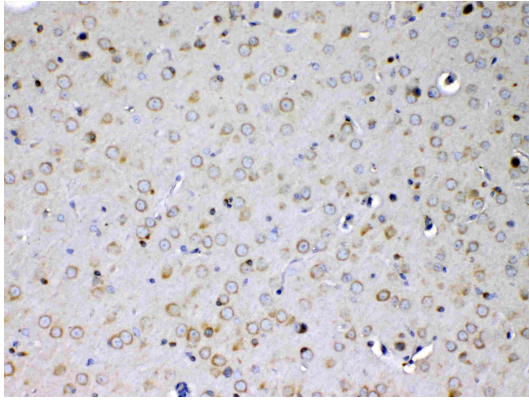
Gene Symbol	IL15RA
Gene Full Name	interleukin 15 receptor, alpha
Background	This gene encodes a cytokine receptor that specifically binds interleukin 15 (IL15) with high affinity. The receptors of IL15 and IL2 share two subunits, IL2R beta and IL2R gamma. This forms the basis of many overlapping biological activities of IL15 and IL2. The protein encoded by this gene is structurally related to IL2R alpha, an additional IL2-specific alpha subunit necessary for high affinity IL2 binding. Unlike IL2RA, IL15RA is capable of binding IL15 with high affinity independent of other subunits, which suggests distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2. Multiple alternatively spliced transcript variants of this gene have been reported.[provided by RefSeq, Apr 2010]
Function	High-affinity receptor for interleukin-15. Can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. Expression of different isoforms may alter or interfere with signal transduction. Isoform 5, isoform 6, isoform 7 and isoform 8 do not bind IL15. Signal transduction involves SYK. [UniProt]
Calculated Mw	28 kDa
PTM	A soluble form (sIL-15RA) arises from proteolytic shedding of the membrane-anchored receptor. The cleavage involves ADAM17/TACE (By similarity). It also binds IL-15 and thus interferes with IL-15 binding to the membrane receptor. Phosphorylated by activated SYK. N-glycosylated and O-glycosylated. [UniProt]
Cellular Localization	Membrane. [UniProt]

Images



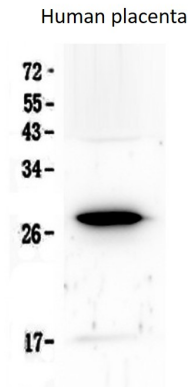
ARG58796 anti-IL15RA antibody ICC/IF image

Immunofluorescence: K562 cells were blocked with 10% goat serum and then stained with ARG58796 anti-IL15RA antibody (red) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



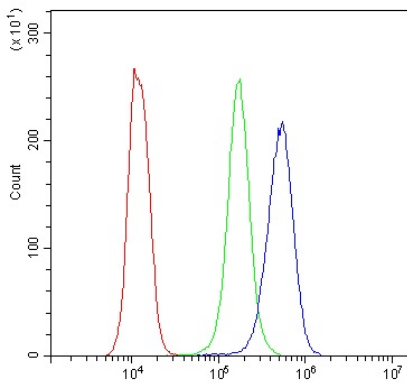
ARG58796 anti-IL15RA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58796 anti-IL15RA antibody at 1 µg/ml, overnight at 4°C.



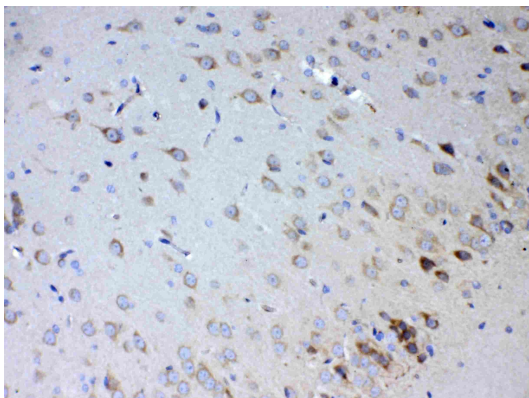
ARG58796 anti-IL15RA antibody WB image

Western blot: 50 µg of samples under reducing conditions. Human placenta lysates stained with ARG58796 anti-IL15RA antibody at 0.5 µg/ml, overnight at 4°C.



ARG58796 anti-IL15RA antibody FACS image

Flow Cytometry: K562 cells were blocked with 10% normal goat serum and then stained with ARG58796 anti-IL15RA antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG58796 anti-IL15RA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG58796 anti-IL15RA antibody at 1 µg/ml, overnight at 4°C.