

IL15RA Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18818c**Specification**

IL15RA Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O13261](#)**IL15RA Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3601**Other Names**

Interleukin-15 receptor subunit alpha, IL-15 receptor subunit alpha, IL-15R-alpha, IL-15RA, CD215, Soluble interleukin-15 receptor subunit alpha, sIL-15 receptor subunit alpha, sIL-15R-alpha, sIL-15RA, IL15RA

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IL15RA Antibody (Center) Blocking Peptide - Protein Information**Name** IL15RA**Function**

High-affinity receptor for interleukin-15 (PubMed:8530383). Can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells (By similarity). In neutrophils, binds and activates kinase SYK in response to IL15 stimulation (PubMed:15123770). In neutrophils, required for IL15- induced phagocytosis in a SYK-dependent manner (PubMed:15123770). Expression of different isoforms may alter or interfere with signal transduction (PubMed:10480910).

Cellular Location

Membrane; Single- pass type I membrane protein. Nucleus membrane; Single-pass type I membrane protein. Cell surface. Note=Mainly found associated with the nuclear membrane [Isoform 6]; Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single- pass type I membrane protein. Cytoplasmic vesicle membrane;

Single-pass type I membrane protein. Membrane; Single-pass type I membrane protein Note=Isoform 5, isoform 6, isoform 7 and isoform 8 are associated with endoplasmic reticulum, Golgi and cytoplasmic vesicles, but not with the nuclear membrane [Isoform 8]: Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Membrane; Single-pass type I membrane protein Note=Isoform 5, isoform 6, isoform 7 and isoform 8 are associated with endoplasmic reticulum, Golgi and cytoplasmic vesicles, but not with the nuclear membrane

Tissue Location

Expressed in neutrophils (at protein level) (PubMed:15123770). Expressed in fetal brain with higher expression in the hippocampus and cerebellum than in cortex and thalamus (PubMed:12114302). Higher levels of soluble sIL-15RA form in comparison with membrane-bound forms is present in all brain structures (PubMed:12114302). Isoforms 1, 3, 4, 5, 6, 7, 8 and 9: Widely expressed (PubMed:10480910, PubMed:8530383).

IL15RA Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

IL15RA Antibody (Center) Blocking Peptide - Images

IL15RA Antibody (Center) Blocking Peptide - 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.

IL15RA Antibody (Center) Blocking Peptide - References

Wu, Z., et al. J Mol Cell Biol 2(4):217-222(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010) Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :Bergamaschi, C., et al. J. Immunol. 183(5):3064-3072(2009)