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# IL15RA Rabbit pAb

Catalog # AP97722

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q13261 |
| **Other Accession** | Q13261 |
| **Reactivity** | Rat, Human |
| **Predicted** | Mouse, Rabbit, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 28233 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human IL-15RA |
| **Epitope Specificity** | 51-150/267 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Contains 1 Sushi (CCP/SCR) domain. |
| **SUBUNIT** | The interleukin-15 receptor IL15R is a heterotrimer of IL15RA, IL2RB and IL2RG. IL15RA also self-associates (By similarity). Interacts with SYK. |
| **Post-translational modifications** | 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. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | IL15RA is a cytokine receptor that specifically binds IL15 with high affinity. It shares two subunits with the receptor of IL2, the IL2R beta and IL2R gamma chains. This forms the basis of many overlapping biological activities of IL15 and IL2. The IL2 receptor requires an additional IL2-specific alpha subunit for high affinity IL2 binding. This protein is structurally related to IL2R alpha, but is capable of binding IL15 with high affinity independent of other subunits, which suggests the distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2. There are nine different isoforms. |

## Additional Information

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| **Gene ID** | 3601 |
| **Other Names** | CD215; I15RA_HUMAN; IL15RA; IL-15 receptor subunit alpha; IL-15R-alpha; IL-15RA; interleukin 15 receptor subunit alpha; interleukin 15 receptor, alpha |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |

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| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **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). |

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