

IL-15R $\alpha$  Polyclonal Antibody

<b>Catalog No :</b>	YT2315
<b>Reactivity :</b>	Human;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	IL-15R $\alpha$
<b>Fields :</b>	>>Cytokine-cytokine receptor interaction;>>JAK-STAT signaling pathway;>>Intestinal immune network for IgA production;>>Human T-cell leukemia virus 1 infection;>>Pathways in cancer
<b>Gene Name :</b>	IL15RA
<b>Protein Name :</b>	Interleukin-15 receptor subunit alpha
<b>Human Gene Id :</b>	3601
<b>Human Swiss Prot No :</b>	Q13261
<b>Mouse Swiss Prot No :</b>	Q60819
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human IL15RA. AA range:99-148
<b>Specificity :</b>	IL-15R $\alpha$ Polyclonal Antibody detects endogenous levels of IL-15R $\alpha$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 32kD

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**Cell Pathway :** Cytokine-cytokine receptor interaction;Jak\_STAT;Intestinal immune network for IgA production;

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**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],

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**Function :** function:Receptor for interleukin-15. Expression of different isoforms may alter or interfere with signal transduction. Isoform 6, isoform 7, isoform 8 and isoform 9 do not bind IL15. Signal transduction involves STAT3, STAT5, STAT6, JAK2 (By similarity) and SYK.,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.,PTM:N-glycosylated and O-glycosylated.,PTM:Phosphorylated by activated SYK.,similarity:Contains 1 Sushi (CCP/SCR) domain.,subcellular location:Isoform 6, isoform 7, isoform 8 and isoform 9 are associated with endoplasmic reticulum, Golgi and cytoplasmic vesicles, but not with the nuclear membrane.,subcellular location:Mainly found associated with the nuclear membrane.,subunit:The interleukin-15 rece

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**Subcellular Location :** Membrane ; Single-pass type I membrane protein . Nucleus membrane ; Single-pass type I membrane protein . Cell surface . Mainly found associated with the nuclear membrane.; [Isoform 5]: 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. 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 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.

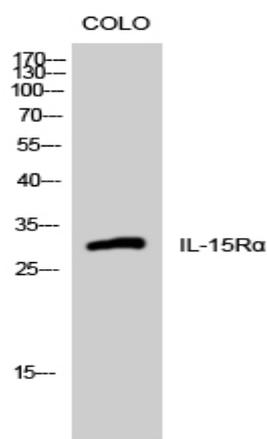
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**Expression :** Expressed in neutrophils (at protein level) (PubMed:15123770). Expressed in fetal brain with higher expression in the hippocampus and cerebellum than in cortex and thalamus (PubMed:12114302). Higher levels of soluble sIL-15RA form in comparison with membrane-bound forms is present in all brain structures

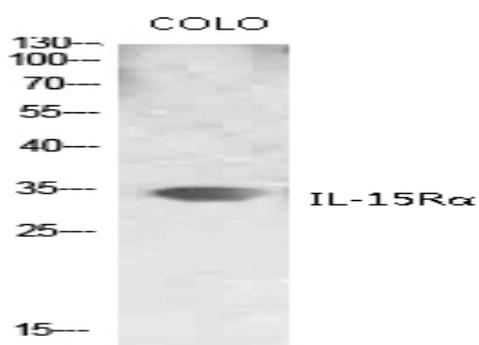
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(PubMed:12114302). Isoforms 1, 3, 4, 5, 6, 7, 8 and 9: Widely expressed  
 (PubMed:10480910, PubMed:8530383).

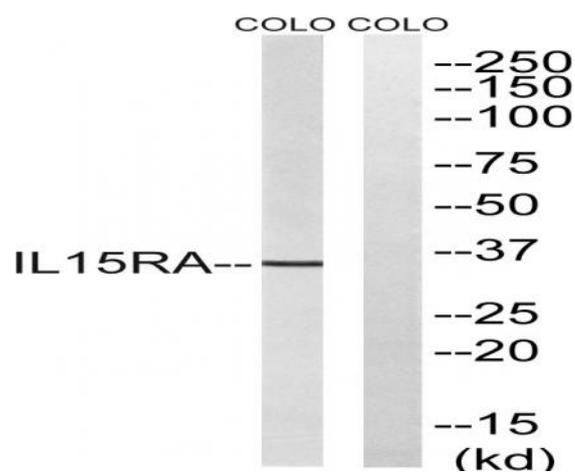
## Products Images



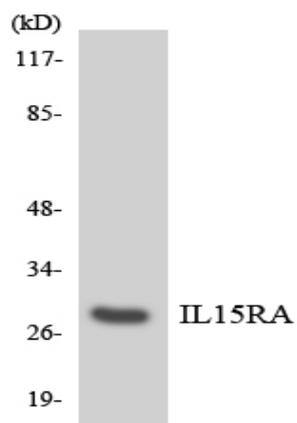
Western Blot analysis of COLO cells using IL-15R $\alpha$  Polyclonal Antibody



Western blot analysis of various lysis using IL-15R $\alpha$  Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from COLO cells, using IL15RA Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using IL15RA antibody.