

## Product datasheet for **DDX0700A546-100**

### IL7R alpha (IL7R) Mouse Monoclonal Antibody [Clone ID: R34-34]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R34-34
Applications:	IF
Recommend Dilution:	<b><u>DDX0700P-50 / DDX0700P-100 Purified:</u></b> FACS surface, Neutralization (IL7- binding inhibition), Immunoprecipitation. <b><u>DDX0700A488-50 / DDX0700A488-100 Alexa-fluor@488:</u></b> Surface Flow cytometry. <b><u>DDX0700A546-50 / DDX0700A546-100 Alexa-fluor@546:</u></b> IF. <b><u>DDX0700A647-50 / DDX0700A647-100 Alexa-fluor@647:</u></b> Surface Flow cytometry.

#### Usage recommendation:

- \*This monoclonal antibody may be used between 5-20 µg/ml.
- \*Optimal dilution should be determined by each laboratory for each application.
- \*Coupled antibody: to maintain RT before using.

Reactivity:	Canine, Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human leukemic pre-B cells.
Specificity:	Human IL7-R $\alpha$ .
Formulation:	<b><u>Purified:</u></b> 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8. <b><u>Coupled:</u></b> 100 µg in 200µl / 50 µg in 100 µl Tris PBS 50% glycerol. Label: Alexa Fluor 546
Concentration:	0.5 mg/ml
Purification:	QMA Hyper D ion exchange chromatography
Conjugation:	Alexa Fluor 546
Gene Name:	interleukin 7 receptor
Database Link:	<a href="#">Entrez Gene 3575 Human</a>



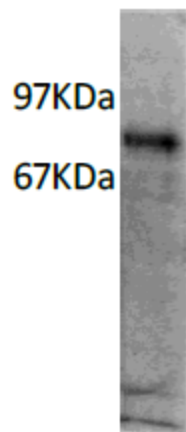
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**Background:**

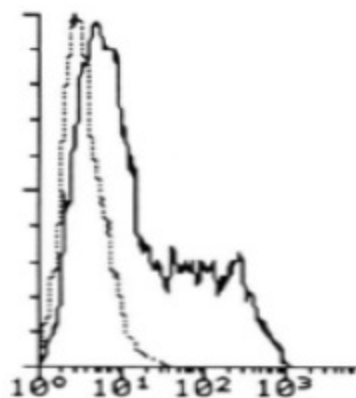
The IL7-R consists of 2 chains, IL-7R $\alpha$  known as CD127 and common cytokine receptor  $\gamma$  chain known as CD132. A 75 to 80kDa human IL-7 receptor has been cloned that belongs to hematopoietic cytokinereceptor super family. R34-34, raised against human leukemic pre-B cells, recognized a molecule expressed on normal B cell precursors but not on mature B cells. This antibody specifically reverted IL-7 mediated growth inhibition of leukemic BCP (normal B cells precursors) and mature T cells. IL-7R $\alpha$  expression is dramatically influenced by cytokines and antigens. This IL-7R displays both high and low affinity for its ligand (IL-7). Inhibitory and proliferative effects of IL-7 can be mediated through the same receptor on various lineages. CD4+ memory T cells express high level of IL-7R Subsets that express it generally require it, including progenitors of T and B cells, naïve and memory T cells. (Pandrau-Garcia D et al, 1994, *Blood*, 83, 3613-9 ; Mazzucchelli R et al, *Nat. Review Immunol.*, 2007,7, 144-54).

**Synonyms:**

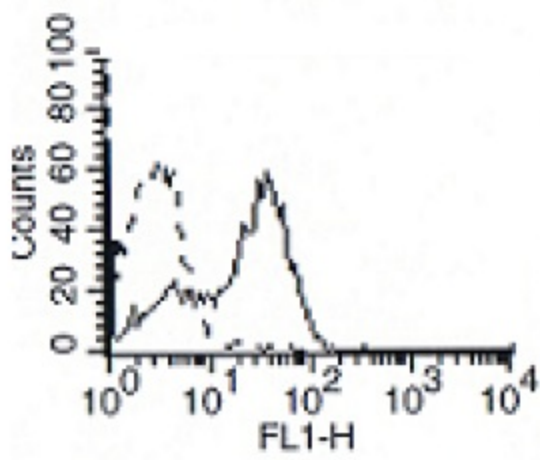
Interleukin-7 receptor subunit alpha, IL-7R-alpha, IL7 receptor alpha

**Product images:**

Immunoprecipitation of R34-34 antigen from <sup>125</sup>I-surface labelled Pre-Alp cells



Facs staining of R34-34-transfected Cos7 cells



Facs staining of PBL with R34-34