



# Anti-IL3RA monoclonal antibody, clone 5B11 (CABT-51798RM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Rat anti Mouse CD123 antibody, clone 5B11 recognizes murine CD123, which is the 70kD alpha chain of the interleukin-3 receptor (IL-3R). CD123 is expressed on haematopoietic progenitors and most myeloid cells including basophils and mast cells. Certain mouse strains including A/J, AKR/J and NZB/B1NJ are reported to have low levels of CD123 expression due to aberrant splicing of the IL-3R alpha subunit gene. In mouse, CD123 can associate with either the common beta subunit CDw131 or with the murine IL-3 beta subunit to form a high affinity receptor for IL-3. IL-3 can bind to CD123 itself but with low affinity. Binding of IL-3 to the IL-3 receptor complex induces the proliferation and differentiation of haematopoietic cells. Rat anti Mouse CD123 antibody, clone 5B11 does not block the binding of IL-3 to the high affinity IL-3 receptor. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.
<b>Specificity</b>	IL3RA
<b>Immunogen</b>	CTLL cells transfected with mouse CD123.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	5B11
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	FC; IF
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	100 µg

<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Il3ra interleukin 3 receptor, alpha chain [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	IL3RA
<b>Synonyms</b>	IL3RA; interleukin 3 receptor, alpha chain; CD123; SUT-1; CDw123; interleukin-3 receptor subunit alpha; IL-3 receptor alpha SP2 isoform; IL-3 receptor alpha chain; IL-3 receptor subunit alpha; IL-3R subunit alpha; IL-3R-alpha; IL-3RA; Il-3 alpha subunit;
<b>Entrez Gene ID</b>	<a href="#">16188</a>
<b>Protein Refseq</b>	<a href="#">NP_032395</a>
<b>UniProt ID</b>	P26952
<b>Chromosome Location</b>	14 A2; 14 7.08 cM
<b>Pathway</b>	Apoptosis; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; IL-3 Signaling Pathway; Jak-STAT signaling pathway; PI3K-Akt signaling pathway;
<b>Function</b>	cytokine receptor activity;