

Rabbit anti-Human IL3RA Monoclonal Antibody | anti-IL3Ra antibody

Recombinant Anti-IL3RA Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254986	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

IL3RA; Monoclonal Antibody; Recombinant Anti-IL3RA Antibody; Rabbit Monoclonal; IL3RA/CD123 Antibody; Rabbit MAb; interleukin 3 receptor; alpha (low affinity); Anti-CD123 Antibody; Anti-hIL-3Ra Antibody; Anti-IL3R Antibody; Anti-IL3RAY Antibody; Anti-IL3RX Antibody; Anti-IL3RY Antibody; anti-IL3Ra antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	017
Specificity	Human IL3RA/CD123. No cross-reactivity in ELISA with Human IL6R
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-IL3Ra antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human IL3RA protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human IL3RA/CD123 (rh L3RA).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

IL3RA was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate Lane B: 0.5 mg MCF-7 Whole Cell Lysate 0.5 uL anti-IL3RA rabbit monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-IL3RA rabbit monoclonal antibody, at 1:350 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 43 kDa Observed band size: 38 kDa



WB (Western Blot)

Anti-IL3RA rabbit monoclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 43 kDa Observed band size: 38 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-IL3Ra antibody	Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein that belongs to the type I cytokine receptor family and Type 5 subfamily. The specific alpha subunit of the interleukin-3 receptor (IL-3Ralpha, CD123) is strongly expressed in various leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias. The WSXWS motif of IL3RA appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box one motif of IL3RA is required for JAK interaction and/or activation. IL3RA represents a unique marker for primitive leukemic stem cells. Targeting of IL3RA may be a promising strategy for the preferential ablation of AML cells. Aberrant IL3RA expression is a good marker for monitoring of minimal residual disease. IL3RA is strongly expressed in various leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias. Recent studies have shown that interleukin-3 receptor alpha (CD123) is highly expressed on leukemia stem cells of patients with acute myeloid leukemia, and is correlated with tumor load and poor prognosis. CD123 was highly expressed in the bone marrow of the patients with myelodysplastic syndrome (MDS), significantly correlated with the proportion of bone marrow blasts, and thus might be the marker of MDS malignant clone. IL3RA is also a useful new marker for distinguishing B-cell disorders with circulating villous lymphocytes as its expression is characteristic of typical hairy cell leukemia (HCL) with high sensitivity and specificity.
Product Categories/Family for anti-IL3Ra antibody	AKT Signaling Pathway
References	Del Giudice I, et al. (2004) The diagnostic value of CD123 in B-cell disorders with hairy or villous lymphocytes. Haematologica. 89(3): 303-8. Du X, et al. (2007) New immunotoxins targeting CD123, a stem cell antigen on acute myeloid leukemia cells. J Immunother. 30(6): 607-13. Yue LZ, et al. (2010) Expression of CD123 and CD114 on the bone marrow cells of patients with myelodysplastic syndrome. Chin Med J (Engl). 123(15): 2034-2037.

NCBI AND UNIPROT INFORMATION

NCBI GI #	417184
NCBI GeneID	3563
UniProt Accession #	P26951 ; Q5HYQ7 ; Q5HYQ8 ; Q9UEH7 ; A8K3F3 ; B9VI81
Molecular Weight	Observed MW: 70kDa Calculated MW: 34kDa/43kDa
NCBI Official Full Name	Interleukin-3 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 3 receptor, alpha (low affinity)
NCBI Official Symbol	IL3RA
NCBI Official Synonym Symbols	IL3R; CD123; IL3RX; IL3RY; IL3RAY; hIL-3Ra
NCBI Protein Information	interleukin-3 receptor subunit alpha; IL-3RA; IL-3R-alpha; CD123 antigen; IL-3R subunit alpha; IL-3 receptor subunit alpha; IL-3 receptor alpha SP2 isoform
UniProt Protein Name	Interleukin-3 receptor subunit alpha
UniProt Gene Name	IL3RA
UniProt Synonym Gene Names	IL3R; IL-3 receptor subunit alpha; IL-3R subunit alpha; IL-3R-alpha; IL-3RA
UniProt Entry Name	IL3RA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/il3ra-antibody-clone-017-immunoprecipitation-western-blot-elisa/254986>