

Mouse IL3RA/CD123 Monoclonal Antibody | anti-IL3RA antibody

IL3RA/CD123 (Acute Myeloid Leukemia Marker)

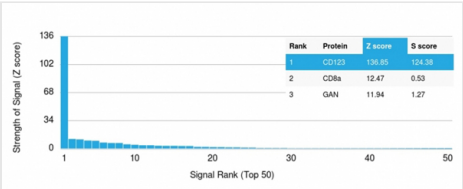
CATALOG # AAA214765	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

IL3RA/CD123; Monoclonal Antibody; IL3RA/CD123 (Acute Myeloid Leukemia Marker); CD123; hIL3Ra; IL-3R-alpha; IL-3RA; IL3RAX; IL3RAY; IL3RX; IL3RY; Interleukin-3 Receptor; alpha; Interleukin3 receptor; Y-chromosomal; anti-IL3RA antibody

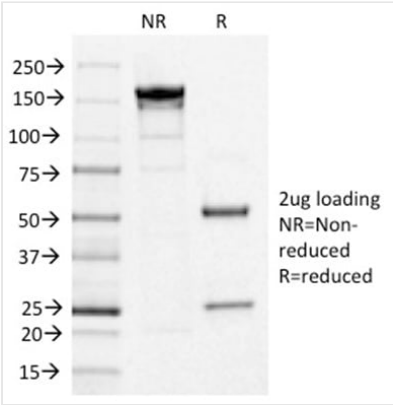
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	IL3RA/1531
Specificity	CD123 is an interleukin 3 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudo-autosomal region on chromosomes X or Y.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	300
Applicable Applications for anti-IL3RA antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment of human IL3RA protein (around aa26-171) (exact sequence is proprietary)
Positive Control	THP-1, RPMI-8226 or HDLM-2 Cells. Tonsil, Lymph Node or Stomach
Cellular Localization	Cell Surface and Cytoplasmic
Chromosome Location	Xp22.3 or Yp11.3
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



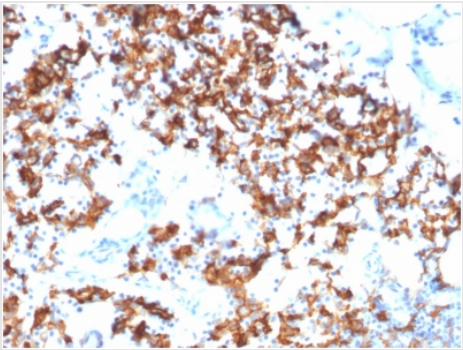
Application Data

Analysis of Protein Array containing >19,000 full-length human proteins using CD123 Mouse Monoclonal Antibody (IL3RA/1531). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



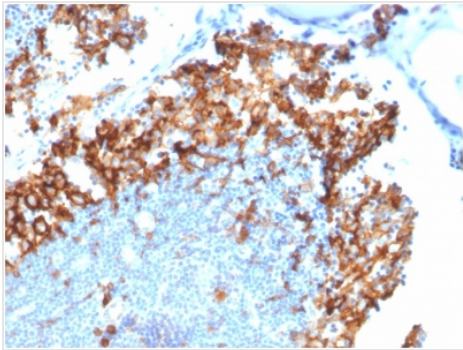
SDS_PAGE

SDS-PAGE Analysis Purified IL3RA/CD123 Mouse Monoclonal Antibody (IL3RA/1531). Confirmation of Purity and Integrity of Antibody.



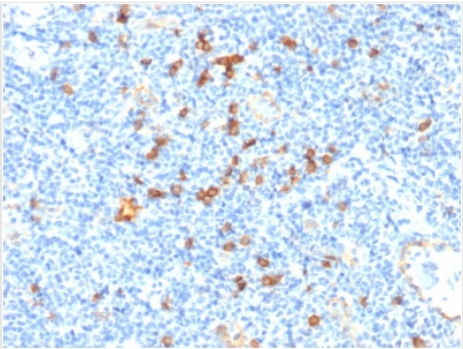
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with IL3RA/CD123 Mouse Monoclonal Antibody (IL3RA/1531).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Lymph Node stained with IL3RA/CD123 Mouse Monoclonal Antibody (IL3RA/1531).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with IL3RA/CD123 Mouse Monoclonal Antibody (IL3RA/1531).

ADDITIONAL INFORMATION

References	Rollins-Raval M, Pillai R, Warita K, Mitsuhashi-Warita T, Mehta R, Boyiadzis M, Djokic M, Kant JA, Roth CG.CD123 immunohistochemical expression in acute myeloid leukemia is associated with underlying FLT3-ITD and NPM1 mutations.Appl Immunohistochem Mol Morphol. 2013 May; 21(3):212-7
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NCBI AND UNIPROT INFORMATION

NCBI GI #	391224440
NCBI GeneID	3563

NCBI Accession #	NP_001254642.1
NCBI GenBank Nucleotide #	NM_001267713.1
UniProt Accession #	P26951 ; Q5HYQ7 ; Q5HYQ8 ; Q9UEH7 ; A8K3F3 ; B9VI81
Molecular Weight	~70kDa
NCBI Official Full Name	interleukin-3 receptor subunit alpha isoform 2
NCBI Official Synonym Full Names	interleukin 3 receptor subunit alpha
NCBI Official Symbol	IL3RA
NCBI Official Synonym Symbols	IL3R; CD123; IL3RX; IL3RY; IL3RAY; hIL-3Ra
NCBI Protein Information	interleukin-3 receptor subunit alpha
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

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://www.aaabiotech.com/monoclonal/il3ra-cd123-antibody-clone-il3ra-1531-immunohistochemistry-elisa/214765>