IL3RA / CD123 (Acute Myeloid Leukemia Marker) Antibody

Mouse Monoclonal Antibody [Clone IL3RA/1531]

Catalog No	Format	Size
3563-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3563-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3563-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

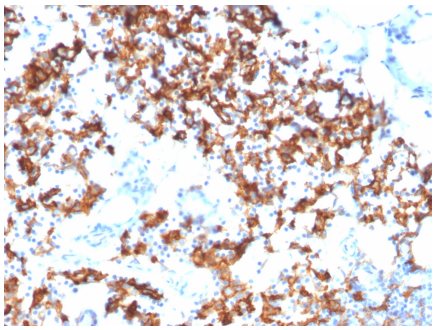
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

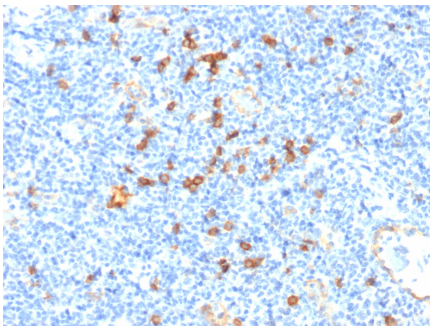
Clone	IL3RA/1531
Gene Name	IL3RA
Immunogen	Recombinant fragment of human IL3RA protein (around aa 26-171) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	70kDa
Cellular Localization	Membrane
Species Reactivity	Human
Positive Control	Human tonsil, lymph node or stomach.

**Optimal dilution for a specific application should be determined.*

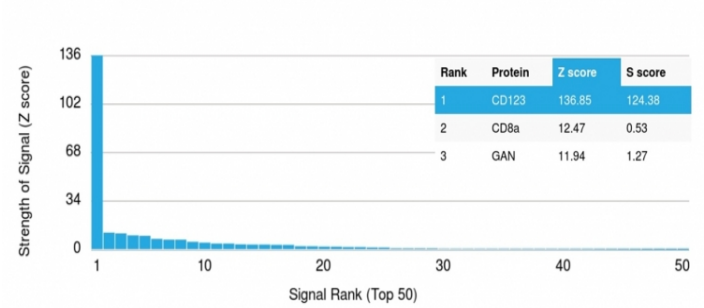
Product Images for IL3RA / CD123 (Acute Myeloid Leukemia Marker) Antibody



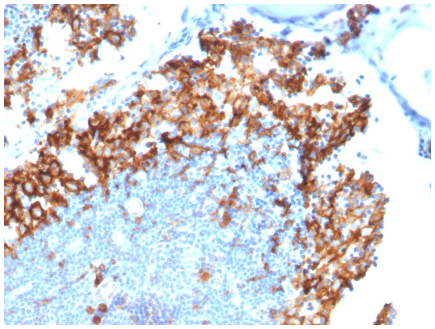
Formalin-fixed, paraffin-embedded human stomach stained with IL3RA / CD123 Mouse Monoclonal Antibody (IL3RA/1531). Inset: PBS instead of primary antibody; secondary only negative control.



Formalin-fixed, paraffin-embedded human tonsil stained with IL3RA / CD123 Mouse Monoclonal Antibody (IL3RA/1531). Inset: PBS instead of primary antibody; secondary only negative control.



Analysis of HuProt™ Protein Array (21,000+ full-length human proteins) with IL3RA / CD123 Mouse Monoclonal Antibody (IL3RA/1531) Z-score: Signal strength (in SD above the mean) of antibody binding to each protein. S-score: Difference in Z-scores between the top target and the next best hit, indicating relative specificity. An antibody is considered specific if S ? 2.5. Example: Binding to protein X (Z = 43) vs protein Y (Z = 14) ? S = 29.



Formalin-fixed, paraffin-embedded human lymph node stained with IL3RA / CD123 Mouse Monoclonal Antibody (IL3RA/1531). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Cytokine Signaling, Hematopoietic Stem Cells, Immunology, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.