



Rabbit Anti-Runx3 antibody

SL4860R

Product Name:	Runx3
Chinese Name:	Runx3抗体
Alias:	RUNX 3; RUNX-3; Runt-related transcription factor 3; Core-binding factor, alpha 3 subunit; CBF-alpha 3; Acute myeloid leukemia 2 protein; OncogeneAML-2; Polyomavirus enhancer-binding protein 2 alpha C subunit; PEBP2-alpha C; PEA2-alpha C; SL3-3 enhancer factor 1 alpha C subunit; SL3/AKV core-binding factor alpha C subunit; Core-binding factor, alpha 3 subunit; CBF-alpha 3; Acute myeloid leukemia 2 protein; Oncogene AML-2; Polyomavirus enhancer-binding protein 2 alpha C subunit; PEBP2-alpha C; PEA2-alpha C; SL3-3 enhancer factor 1 alpha C subunit; SL3/AKV core-binding factor alpha C subunit.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	47kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Runx3:31-130/415
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

RUNX3 binds to the core site of murine Leukemia virus, the core sequences in the enhancer of the polyomavirus, and also to the enhancers of the T-cell receptor genes. May be involved in the control of cellular proliferation and/or differentiation (By similarity). Heterodimer of an alpha and a beta subunit. The alpha subunit binds DNA as a monomer and through the Runt domain. DNA-binding is increased by heterodimerization. Interacts with TLE1 and SUV39H1, Subcellular location in Nucleus.

Function:

CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, lck, IL-3 and GM-CSF promoters.

Subunit:

Heterodimer of an alpha and a beta subunit. The alpha subunit binds DNA as a monomer and through the Runt domain. DNA-binding is increased by heterodimerization. Interacts with TLE1 and SUV39H1. The tyrosine phosphorylated form (via runt domain) interacts with SRC (via protein kinase domain). Interacts with FYN and LCK.

Subcellular Location:

Nucleus. Cytoplasm. The tyrosine phosphorylated form localizes to the cytoplasm.

Post-translational modifications:

Phosphorylated on tyrosine residues by SRC. Phosphorylated by LCK and FYN.

Similarity:

Contains 1 Runt domain.

SWISS:

Q13761

Gene ID:

864

Database links:

[Entrez Gene: 864](#) Human

[Entrez Gene: 12399](#) Mouse

[Omim: 600210](#) Human

[SwissProt: Q13761](#) Human

[SwissProt: Q64131](#) Mouse

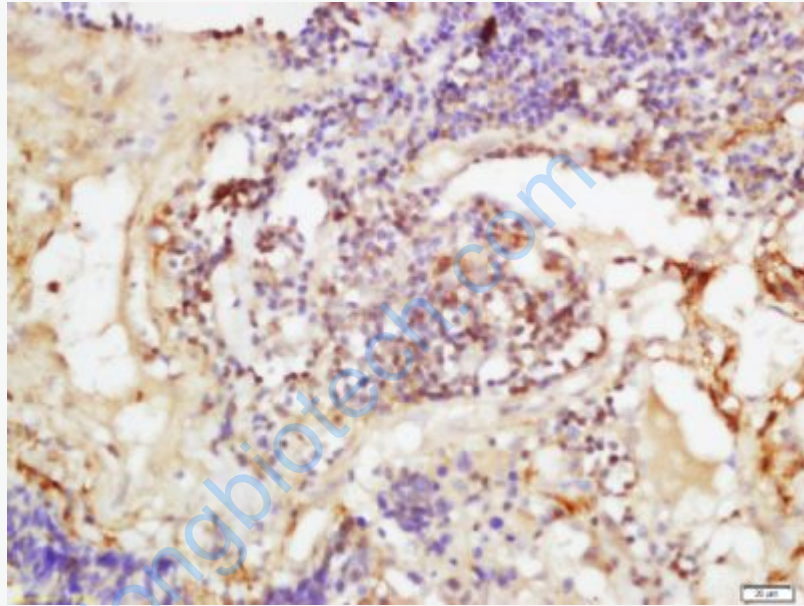
[Unigene: 170019](#) Human

Product Detail:

[Unigene: 378894](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Runx3 Polyclonal Antibody, Unconjugated(SL4860R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

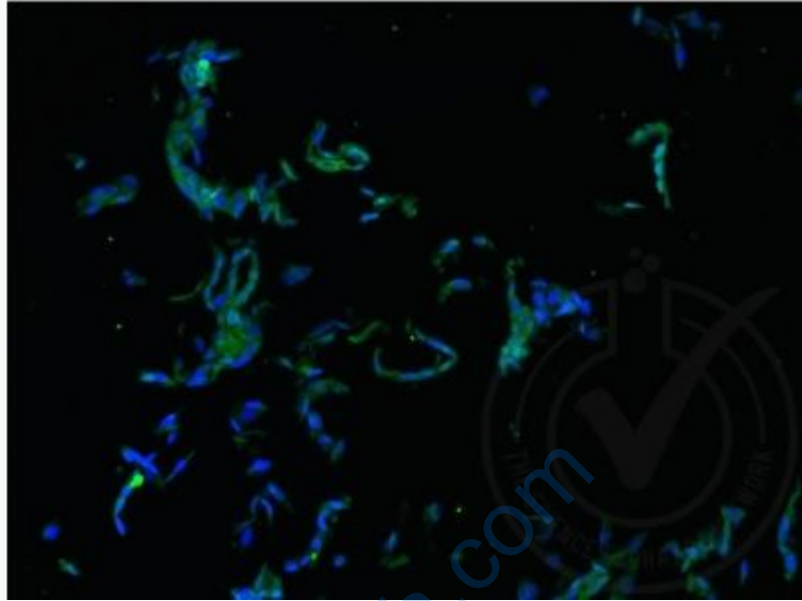
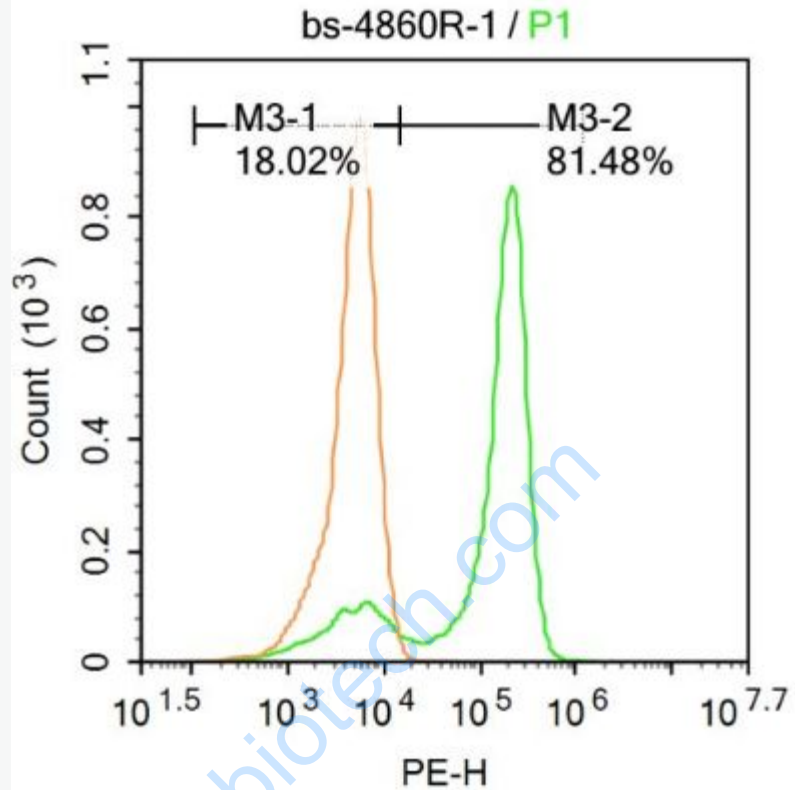


Image provided by the Independent Validation Program, badge number 29621:A431
cells stained with Rabbit Anti-Runx3 Polyclonal Antibody at 4C overnight, followed
by a Donkey Anti Rabbit FITC conjugated secondary antibody for 60 min in dark at
RT

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U-937 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with Runx3 Antibody(SL4860R) at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).