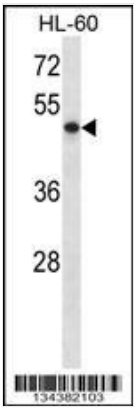
RUNX3 Antibody – Rabbit Polyclonal

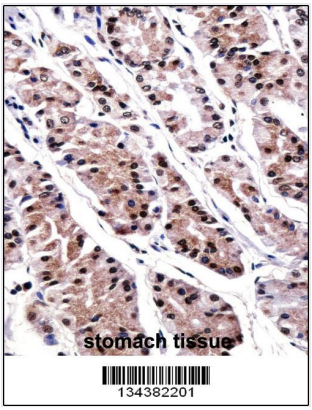
PRODUCT OVERVIEW

Product Name	RUNX3, Polyclonal Antibody
Full Product Name	RUNX3, ID (RUNX3, AML2, CBFA3, PEBP2A3, Runt-related transcription factor 3, Acute myeloid leukemia 2 protein, Core-binding factor subunit alpha-3, Oncogene AML-2, Polyomavirus enhancer-binding protein 2 alpha C subunit, SL3-3 enhancer factor 1 alpha C su
Product Gene Name	anti-RUNX3 antibody
Product Synonym Names	RUNX3; AML2; CBFA3; PEBP2A3; Runt-related transcription factor 3; Acute myeloid leukemia 2 protein; Core-binding factor subunit alpha-3; Oncogene AML-2; Polyomavirus enhancer-binding protein 2 alpha C subunit; SL3-3 enhancer factor 1 alpha C subunit; SL3/AKV core-binding factor alpha C subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	44,356 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (25226002..25291501, complement). Location: 1p36
OMIM	600210
3D Structure	ModBase 3D Structure for Q13761
Immunogen	RUNX3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 167-197 amino acids from the Central region of human RUNX3.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-RUNX3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-RUNX3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-RUNX3 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-RUNX3 antibody	This gene encodes a member of the runt domain-containing family of transcription factors. A heterodimer of this protein and a beta subunit forms a complex that binds to the core DNA sequence 5'-PYGPYGGT-3' found in a number of enhancers and promoters, and can either activate or suppress transcription. It also interacts with other transcription factors. It functions as a tumor suppressor, and the gene is frequently deleted or transcriptionally silenced in cancer. Multiple transcript variants encoding different isoforms have been found for this gene.

Product References and Citations for anti-RUNX3 antibody	Tsang, Y.H., et al. Oncogene 29(41):5643-5650(2010). Shimada, M., et al. Hum. Genet. 128(4):433-441(2010). Iwatani, K., et al. Biochem. Biophys. Res. Commun. 400(3):426-431(2010). Kodach, L.L., et al. Carcinogenesis 31(9):1567-1575(2010). Nishio, M., et al. Anticancer Res. 30(7):2673-2682(2010).
Other Notes	Small volumes of anti-RUNX3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RUNX3 purchase	MBS6344449 is an antibody targeting RUNX3. Also known as RUNX3, ID (RUNX3, AML2, CBFA3, PEBP2A3, Runt-related transcription factor 3, Acute myeloid leukemia 2 protein, Core-binding factor subunit alpha-3, Oncogene AML-2, Polyomavirus enhancer-binding protein 2 alpha C subunit, SL3-3 enhancer factor 1 alpha C su. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RUNX3 antibody
RUNX3 Antibody (Center) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the RUNX3 antibody detected the RUNX3 protein (arrow).



Immunohistochemistry (IHC) of anti-RUNX3 antibody
RUNX3 Antibody (Center) (AP14667c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RUNX3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-RUNX3 antibody
Fluorescent confocal image of Hela cell stained with RUNX3 Antibody (Center).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with RUNX3 primary antibody (1:25, 1 h at 37 degree C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). RUNX3 immunoreactivity is localized to Nucleus and Cytoplasm significantly.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RUNX3. It may not necessarily be applicable to this product.

NCBI GI #	72534652
NCBI GeneID	864
NCBI Accession #	NP_001026850.1

NCBI Related Accession #	NP_004341.1
UniProt Primary Accession #	Q13761
UniProt Secondary Accession #	Q12969; Q13760; B1AJV5
UniProt Related Accession #	Q13761
GenBank Nucleotide #	NM_001031680.2
NCBI Official Full Name	runt-related transcription factor 3 isoform 1
NCBI Official Synonym Full Names	runt-related transcription factor 3
NCBI Official Symbol	RUNX3
NCBI Official Synonym Symbols	AML2; CBFA3; PEBP2aC
UniProt Protein Name	Runt-related transcription factor 3
UniProt Synonym Protein Names	Acute myeloid leukemia 2 protein; Core-binding factor subunit alpha-3; CBF-alpha-3; Oncogene AML-2; Polyomavirus enhancer-binding protein 2 alpha C subunit; PEA2-alpha C; PEBP2-alpha C; SL3-3 enhancer factor 1 alpha C subunit; SL3/AKV core-binding factor alpha C subunit
Protein Family	Runt-related transcription factor
UniProt Gene Name	RUNX3
UniProt Synonym Gene Names	AML2; CBFA3; PEBP2A3; CBF-alpha-3; PEA2-alpha C
UniProt Entry Name	RUNX3_HUMAN
NCBI Protein Information	runt-related transcription factor 3; CBF-alpha-3; PEA2 alpha C; PEA2-alpha C; PEBP2 alpha C; PEBP2-alpha C; oncogene AML-2; transcription factor AML2; acute myeloid leukemia gene 2; acute myeloid leukemia 2 protein; core-binding factor subunit alpha-3; SL
UniProt Comments for RUNX3	AML2: 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. 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 1p36 Cellular Component: Golgi apparatus; intracellular membrane-bound organelle; nuclear chromatin; cytoplasm; nucleolus; nucleus Molecular Function: protein binding; transcription factor activity; ATP binding Biological Process: peripheral nervous system neuron development; transcription from RNA polymerase II promoter; axon guidance; hair follicle morphogenesis; regulation of transcription, DNA-dependent; cell maturation; interferon-gamma production; chondrocyte differentiation; negative regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation; negative regulation of epithelial cell proliferation; negative regulation of cell cycle
Research Articles on RUNX3	**1.** Aim of this study was to characterize further the expression of RUNX3 in lung cancers.Inactivation of RUNX3 was observed in 70% of the adenocarcinoma samples, and this was associated with promoter hypermethylation but not biased to EGFR/KRAS mutations.
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