

Rabbit anti-Human, Mouse RUNX3 Polyclonal Antibody | anti-RUNX3 antibody

RUNX3 Antibody

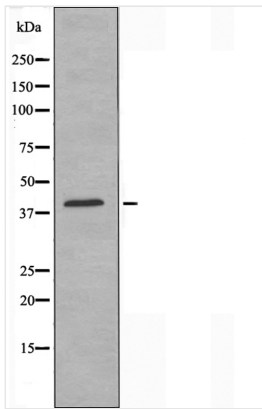
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321857	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

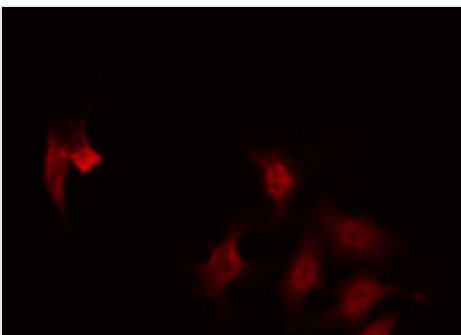
RUNX3; Polyclonal Antibody; RUNX3 Antibody; Acute myeloid leukemia 2 protein; Acute myeloid leukemia gene 2; AML 2; AML2; CBF alpha 3; CBF-alpha-3; CBFA 3; CBFA3; Core binding factor alpha 3 subunit; core binding factor; Core binding factor runt domain alpha subunit 3; Core binding factor subunit alpha 3; core-binding factor; Core-binding factor subunit alpha-3; Oncogene AML 2; Oncogene AML-2; PEA2 alpha C; PEA2-alpha C; PEBP2 alpha C; PEBP2-alpha C; Pebp2a3; PEBP2aC; Polyomavirus enhancer binding protein 2 alpha C subunit; Polyomavirus enhancer-binding protein 2 alpha C subunit; runt domain alpha subunit 3; runt related transcription factor 3; Runt-related transcription factor 3; RUNX 3; Runx3; RUNX3_HUMAN; SL3 3 enhancer factor 1 alpha C subunit; SL3-3 enhancer factor 1 alpha C subunit; SL3/AKV core binding factor alpha C subunit; SL3/AKV core-binding factor alpha C subunit; Transcription factor AML2; anti-RUNX3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	RUNX3 antibody detects endogenous levels of total RUNX3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	429
Applicable Applications for anti-RUNX3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RUNX3
Subcellular Location	Nucleus. Cytoplasm. The tyrosine phosphorylated form localizes to the cytoplasm.
Tissue Specificity	Expressed in gastric cancer tissues (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of RUNX3 expression in HUVEC cells



IF (Immunofluorescence)
AAA321857 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RUNX3 antibody	Description: CBF binds to the core site, 5'-PYGPGYGGT-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. Function: Forms the heterodimeric complex core-binding factor (CBF) with CBFB. RUNX members modulate the transcription of their target genes through recognizing the core consensus binding sequence 5'-TGTGGT-3', or very rarely, 5'-TGCGGT-3', within their regulatory regions via their runt domain, while CBFB is a non-DNA-binding regulatory subunit that allosterically enhances the sequence-specific DNA-binding capacity of RUNX. The heterodimers bind to the core site of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, LCK, IL3 and GM-CSF promoters (By similarity). May be involved in the control of cellular proliferation and/or differentiation. In association with ZFHX3, upregulates CDKN1A promoter activity following TGF-beta stimulation (PubMed:20599712). CBF complexes repress ZBTB7B transcription factor during cytotoxic (CD8+) T cell development. They bind to RUNX-binding sequence within the ZBTB7B locus acting as transcriptional silencer and allowing for cytotoxic T cell differentiation. CBF complexes binding to the transcriptional silencer is essential for recruitment of nuclear protein complexes that catalyze epigenetic modifications to establish epigenetic ZBTB7B silencing (By similarity). Subunit Structure: Heterodimer with CBFB. RUNX3 binds DNA as a monomer and through the Runt domain. DNA-binding is increased by heterodimerization (By similarity). Interacts with TLE1 and SUV39H1 (PubMed:9751710 and PubMed:16652147). The tyrosine phosphorylated form (via runt domain) interacts with SRC (via protein kinase domain)(PubMed:20100835). Interacts with FYN and LCK (PubMed:20100835). Interacts with FOXP3 (PubMed:17377532). Interacts with ZFHX3 (PubMed:20599712). Interacts with TBX21 (By similarity). Post-translational Modifications: Phosphorylated on tyrosine residues by SRC. Phosphorylated by LCK and FYN. Similarity: A proline/serine/threonine rich region at the C-terminus is necessary for transcriptional activation of target genes.
References	Li L, Zhao J, Huang S, Wang Y, Zhu L, Cao Y, Xiong J, Deng J; Journal: Gene. MiR-93-5p promotes gastric cancer-cell progression via inactivation of the Hippo signaling pathway.

NCBI AND UNIPROT INFORMATION

NCBI GI #	72534652
NCBI GeneID	864
NCBI Accession #	NP_001026850.1
NCBI GenBank Nucleotide #	NM_001031680.2
UniProt Accession #	Q13761; Q12969; Q13760; B1AJV5
Molecular Weight	Observed: 44 kDa Predicted: 45 kDa
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
NCBI Protein Information	runt-related transcription factor 3
UniProt Protein Name	Runt-related transcription factor 3
UniProt Gene Name	RUNX3
UniProt Synonym Gene Names	AML2; CBFA3; PEBP2A3; CBF-alpha-3; PEA2-alpha C; PEBP2-alpha C

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/polyclonal/runx3-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321857>