

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

AP55801PU-S Polyclonal Antibody to RUNX1 pSer435 - Aff - Purified

Alternate names:	1, AML-1, AML1, AML1-EVI-1, AMLCR1, Acute myeloid leukemia 1 protein, CBF-alpha-2, CBFA2, Core-binding factor subunit alpha-2, EVI-1, PEA2-alpha B, PEBP2-alpha B, PEBP2A2, Polyomavirus enhancer-binding protein 2 alpha B subunit, Runt-related transcription factor, SL3-3 enhancer factor 1 alpha B subunit, SL3/AKV core-binding factor alpha B subunit
Quantity:	50 µg
Concentration:	1.0 mg/ml
Background:	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. The alpha subunit binds DNA and appears to have a role in the development of normal hematopoiesis. Isoform AML-1L interferes with the transactivation activity of RUNX1. Acts synergistically with ELF4 to transactivate the IL-3 promoter and with ELF2 to transactivate the mouse BLK promoter. Inhibits MYST4-dependent transcriptional activation.
Uniprot ID:	<u>Q01196</u>
NCBI:	<u>NP_001001890.1</u>
GenelD:	<u>861</u>
Host:	Rabbit
Immunogen:	Peptide sequence around phosphorylation site of Serine 435(S-N-S(p)-P-T) derived from Human AML1 (KLH-conjugated)
Format:	State: Liquid Ig fraction Purification: Affinity chromatography using epitope-specific peptide Buffer System: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Applications:	Western blot: 1:500~1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	53 kDa
Specificity:	The antibody detects endogenous levels of AML1 only when phosphorylated at serine 435.
Species Reactivity:	Tested: Human, Mouse, Rat
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Miyoshi H, Shimizu K, Kozu T, Maseki N, Kaneko Y, Ohki M. t(8;21) breakpoints on chromosome 21 in acute myeloid leukemia are clustered within a limited region of a single gene, AML1. Proc Natl Acad Sci U S A. 1991 Dec 1;88(23):10431-4. PubMed PMID: 1720541.

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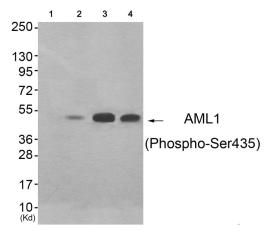
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2. Sacchi N, Nisson PE, Watkins PC, Faustinella F, Wijsman J, Hagemeijer A. AML1 fusion transcripts in t(3;21) positive leukemia: evidence of molecular heterogeneity and usage of splicing sites frequently involved in the generation of normal AML1 transcripts. Genes Chromosomes Cancer. 1994 Dec;11(4):226-36. PubMed PMID: 7533526.

3. Nucifora G, Birn DJ, Espinosa R, Erickson P, LeBeau MM, Roulston D, et al. Involvement of the AML1 gene in the t(3;21) in therapy-related leukemia and in chronic myeloid leukemia in blast crisis. Blood. 1993 May 15;81(10):2728-34. PubMed PMID: 8490181.

Pictures:

Western blot analysis of extracts from 293 cells (Lane 2), HeLa cells (Lane 3) and HepG2 cells (Lane 4), using AML1 (Phospho-Ser435) Antibody AP55801PU-N. The lane on the left is treated with antigen-specific peptide.



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