

ARG41229 anti-RUNX1 / AML1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RUNX1 / AML1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RUNX1 / AML1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 200-233 of Human RUNX1 / AML1. (ELEQLRRTAMRVSPHHPAPTPNPRASLNHSTAFN)
Conjugation	Un-conjugated
Alternate Names	Acute myeloid leukemia 1 protein; Oncogene AML-1; PEBP2-alpha B; Polyomavirus enhancer-binding protein 2 alpha B subunit; Runt-related transcription factor 1; AML1; CBFA2; AML1-EVI-1; CBF2alpha; PEBP2alpha; AMLCR1; EVI-1; SL3-3 enhancer factor 1 alpha B subunit; Core-binding factor subunit alpha-2; PEBP2aB; CBF-alpha-2; SL3/AKV core-binding factor alpha B subunit; PEA2-alpha B

Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	55 kDa	

Properties

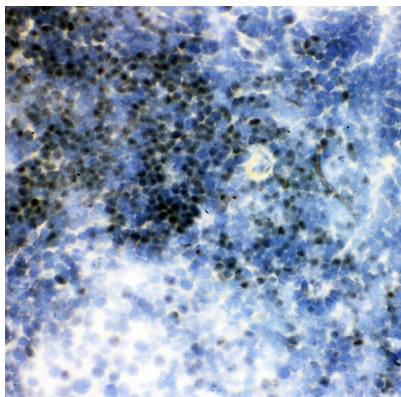
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

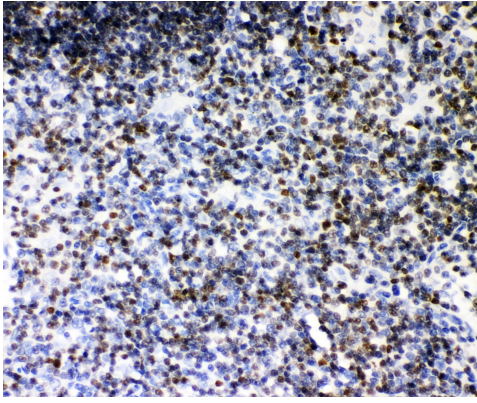
Gene Symbol	RUNX1
Gene Full Name	runt-related transcription factor 1
Background	Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit of CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal translocations involving this gene are well-documented and have been associated with several types of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
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. 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 KAT6B-dependent transcriptional activation. Controls the anergy and suppressive function of regulatory T-cells (Treg) by associating with FOXP3. Activates the expression of IL2 and IFNG and down-regulates the expression of TNFRSF18, IL2RA and CTLA4, in conventional T-cells. [UniProt]
Calculated Mw	49 kDa
PTM	Phosphorylated in its C-terminus upon IL-6 treatment. Phosphorylation enhances interaction with KAT6A. Methylated. Phosphorylated in Ser-249 Thr-273 and Ser-276 by HIPK2 when associated with CBFB and DNA. This phosphorylation promotes subsequent EP300 phosphorylation. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



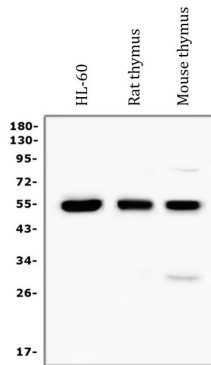
ARG41229 anti-RUNX1 / AML1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat spleen tissue. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41229 anti-RUNX1 / AML1 antibody at 1 µg/ml dilution, overnight at 4°C.



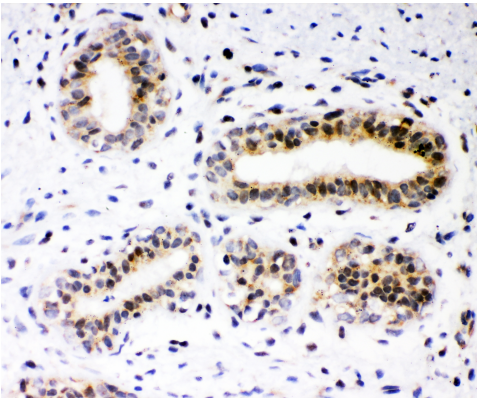
ARG41229 anti-RUNX1 / AML1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat thymus tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41229 anti-RUNX1 / AML1 antibody at 1 μ g/ml dilution, overnight at 4°C.



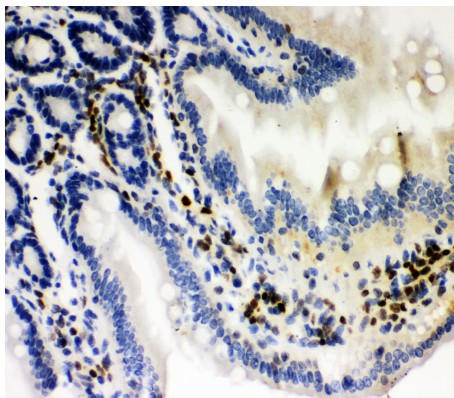
ARG41229 anti-RUNX1 / AML1 antibody WB image

Western blot: 50 μ g of samples under reducing conditions. HL-60, Rat thymus and Mouse thymus lysates stained with ARG41229 anti-RUNX1 / AML1 antibody at 0.5 μ g/ml, overnight at 4°C.



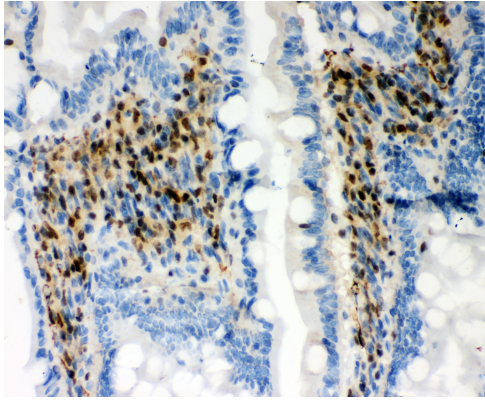
ARG41229 anti-RUNX1 / AML1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41229 anti-RUNX1 / AML1 antibody at 1 μ g/ml dilution, overnight at 4°C.



ARG41229 anti-RUNX1 / AML1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41229 anti-RUNX1 / AML1 antibody at 1 μ g/ml dilution, overnight at 4°C.



ARG41229 anti-RUNX1 / AML1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG41229 anti-RUNX1 / AML1 antibody at 1 μ g/ml dilution, overnight at 4°C.