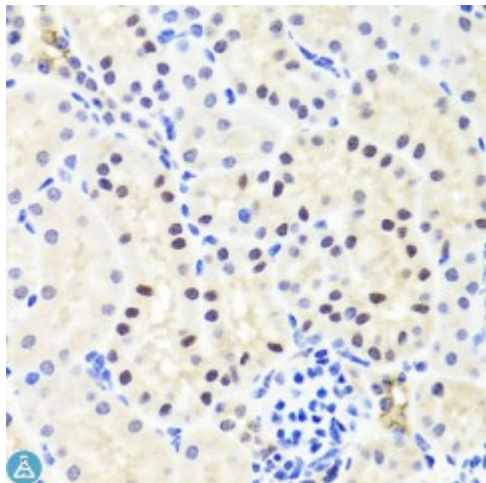


Anti-RUNX1 Antibody



Description

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.

Model	STJ113542
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 221-480 of human RUNX1 (NP_001745.2).
Gene ID	861
Gene Symbol	RUNX1
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Tissue Specificity	Expressed in all tissues examined except brain and heart, Highest levels in thymus, bone marrow and peripheral blood
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Runt-related transcription factor 1 Acute myeloid leukemia 1 protein Core-

	binding factor subunit alpha-2 CBF-alpha-2 Oncogene AML-1 Polyomavirus enhancer-binding protein 2 alpha B subunit PEA2-alpha B PEBP2-alpha
Molecular Weight	48.737 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:10471 OMIM:151385 Reactome:R-HSA-549127
Alternative Names	Runt-related transcription factor 1 Acute myeloid leukemia 1 protein Core-binding factor subunit alpha-2 CBF-alpha-2 Oncogene AML-1 Polyomavirus enhancer-binding protein 2 alpha B subunit PEA2-alpha B PEBP2-alpha
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 ,
Cellular Localization	Nucleus
Post-translational Modifications	Phosphorylated in its C-terminus upon IL-6 treatment, Phosphorylation enhances interaction with KAT6A