Product datasheet

Anti-RUNX1 Antibody

Catalog Number: *PB9157*

BOSTER
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Basic Information

Product Name	Anti-RUNX1 Antibody
Gene Name	RUNX1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human RUNX1, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	49 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Runt-related transcription factor 1 (RUNX1), also known as AML1 or CBFA2, is a protein that in humans is encoded by the RUNX1 gene. It belongs to the Runt-related transcription factor (RUNX) family of genes which are also called core binding factor-α (CBFα). RUNX1 is mapped to 21q22.12. RUNX1 is a transcription factor that regulates the differentiation of hematopoietic stem cells into mature blood cells. RUNX proteins form a heterodimeric complex with CBFβ which confers increased DNA binding and stability to the complex. Chromosomal translocations involving the RUNX1 gene are associated with several types of leukemia including M2 AML. Mutations in RUNX1 are implicated in cases of breast cancer.

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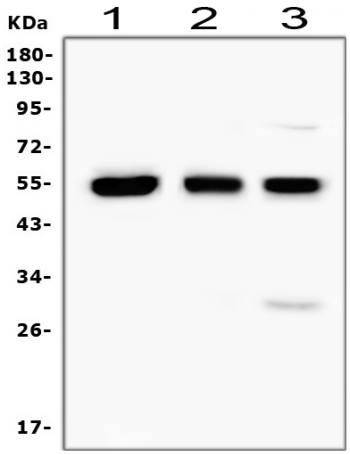
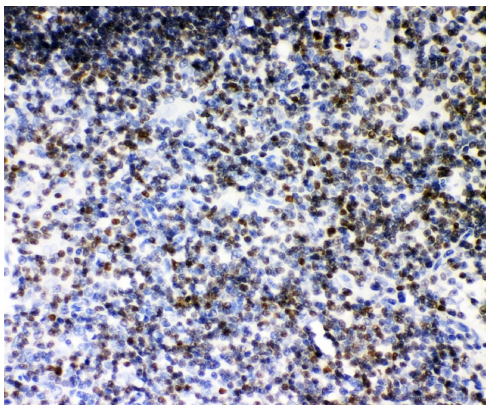
Reference

Anti-RUNX1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of RUNX1 using anti-RUNX1 antibody (PB9157). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HL-60 whole cell lysates,
Lane 2: rat thymus tissue lysates,
Lane 3: mouse thymus tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-RUNX1 antigen affinity purified polyclonal antibody (PB9157) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for RUNX1 at approximately 49 kDa. The expected band size for RUNX1 is at 49 kDa.



IHC analysis of RUNX1 using anti-RUNX1 antibody (PB9157). RUNX1 was detected in a paraffin-embedded section of rat thymus tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-RUNX1 Antibody (PB9157) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.