

## Product datasheet

### Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099] $\alpha$ b92336

Recombinant RabMAb

★★★★★ **4 Abreviews** **75 References** [10 Images](#)

#### Overview

<b>Product name</b>	Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099]
<b>Description</b>	Rabbit monoclonal [EPR3099] to RUNX1 / AML1 + RUNX3 + RUNX2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ChIC/CUT&RUN-seq, Flow Cyt (Intra), WB, IP, IHC-P, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as <b>ab177141</b> )
<b>Positive control</b>	WB: MOLT4, WEHI-3, CTLL-2 and Raw264.7 cell lysate; mouse and rat thymus tissue lysate, mouse spleen tissue lysate and fetal thymus tissue lysate. IHC: Human tonsil tissue. IP: Molt-4 cell lysate IHC-Fr: Human tonsil tissue sections. ChIC/CUT&RUN-Seq: K-562 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
<b>Purity</b>	Tissue culture supernatant

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3099
<b>Isotype</b>	IgG

## Applications

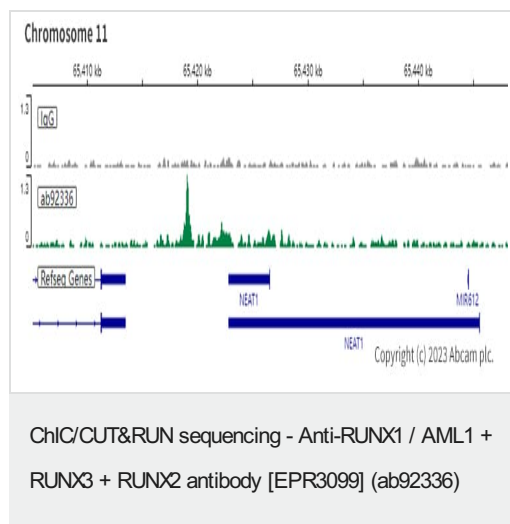
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab92336 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>ChIC/CUT&amp;RUN-seq</b>		Use at an assay dependent concentration. 5 µg
<b>Flow Cyt (Intra)</b>		1/50. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>WB</b>		1/5000 - 1/10000. Predicted molecular weight: 49 kDa. Can be blocked with <b>RUNX1 / AML1 peptide (ab177141)</b> .
<b>IP</b>		1/20.
<b>IHC-P</b>		1/100 - 1/250. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. The use of an HRP/AP polymerized secondary antibody will give a stronger signal.
<b>IHC-Fr</b>		1/500.

## Target

**Cellular localization** RUNX1 / AML1: Nucleus. RUNX3: Nucleus. Cytoplasm. The tyrosine phosphorylated form localizes to the cytoplasm. RUNX2: Nucleus.

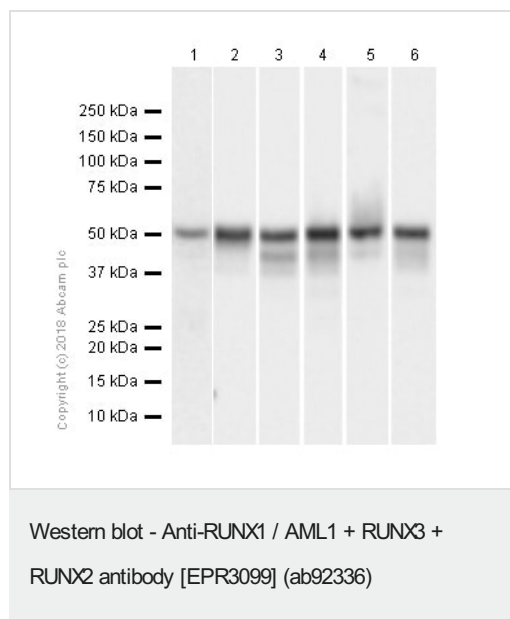
## Images



ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL,  $2.5 \times 10^5$  K-562 (Human chronic myelogenous leukemia lymphoblast) cells and 5µg of ab92336 [EPR3099]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control **ab172730** is also shown.

Additional screenshots of mapped reads can be downloaded [here](#).

The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



**All lanes** : Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099] (ab92336) at 1.28 µg/ml (purified)

**Lane 1** : Raw264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

**Lane 2** : Molt-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate

**Lane 3** : WEHI-3 (Mouse leukemia lymphoblast) whole cell lysate

**Lane 4** : Mouse thymus lysate

**Lane 5** : CTLL-2 (Mouse T lymphocyte) whole cell lysate

**Lane 6** : Rat thymus lysate

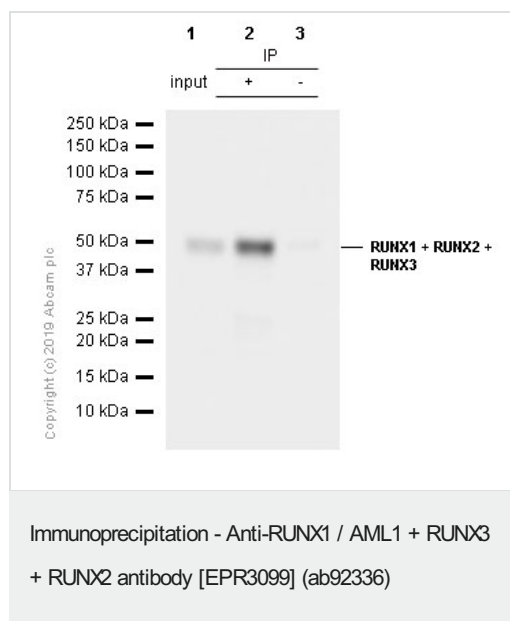
Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 0.05 µg/ml

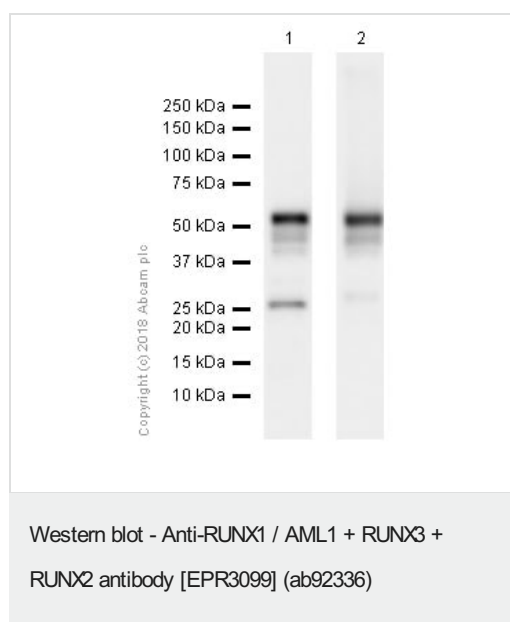
**Predicted band size:** 49 kDa

Blocking/Diluting buffer and concentration: 5% NFDM /TBST



ab92336 (purified) at 1/20 immunoprecipitating RUNX1 / AML1 + RUNX3 + RUNX2 in 10 µg Molt-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate (**Lanes 1 and 2**, observed at 49 kDa). **Lane 3** - Rabbit monoclonal IgG (**ab172730**) instead of ab92336 in Molt-4 whole cell lysate. For western blotting, ab92336 at 1/500 and VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

**Blocking/Dilution buffer and concentration:** 5% NFDM/TBST.



**All lanes :** Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099] (ab92336) at 1.28 µg/ml (purified)

**Lane 1 :** Mouse spleen lysate

**Lane 2 :** Mouse thymus lysate

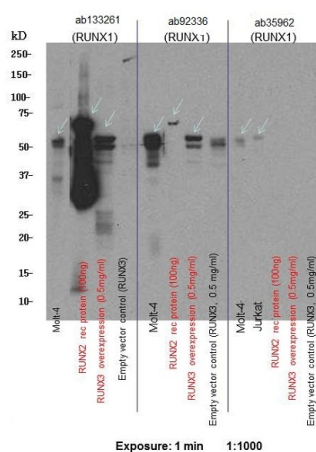
Lysates/proteins at 20 µg per lane.

### Secondary

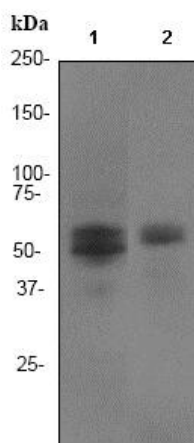
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 0.05 µg/ml

**Predicted band size:** 49 kDa

Blocking/Diluting buffer and concentration: 5% NFDM /TBST



Western blot - Anti-RUNX1 / AML1 + RUNX3 +  
RUNX2 antibody [EPR3099] (ab92336)



Western blot - Anti-RUNX1 / AML1 + RUNX3 +  
RUNX2 antibody [EPR3099] (ab92336)

RUNX2 recombinant protein full length, with N-terminal HIS tag,  
expressed in E.Coli.

RUNX3 overexpression and empty vector control lysates created in  
HEK293T cells. The protein contains a C-terminal DDK tag.

**All lanes** : Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody  
[EPR3099] (ab92336) at 1/10000 dilution

**Lane 1** : MOLT4  
cell lysate

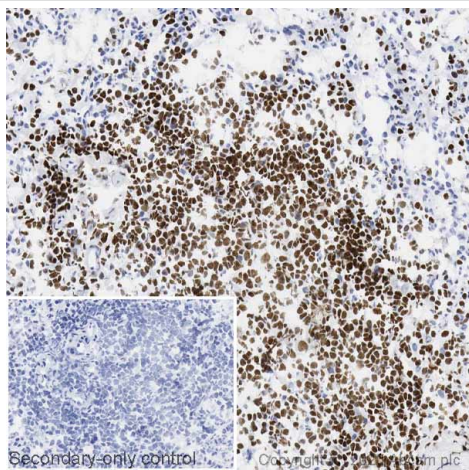
**Lane 2** : fetal thymus lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat anti-Rabbit HRP at 1/2000 dilution

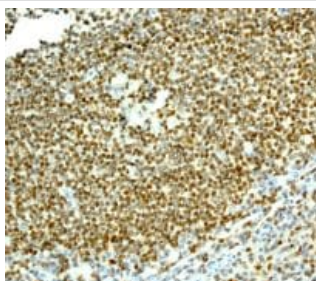
**Predicted band size:** 49 kDa



Immunohistochemistry (Frozen sections) - Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099] (ab92336)

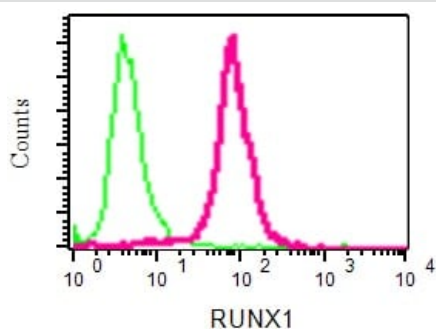
IHC image of RUNX1 / AML1 + RUNX3 + RUNX2 staining in a section of frozen normal human tonsil performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab92336, 1/500 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099] (ab92336)

Immunohistochemistry staining of RUNX1 / AML1 in formalin-fixed, paraffin-embedded Human tonsil tissue using 1/100 ab92336. Heat mediated antigen retrieval was performed via the pressure cooker method before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody [EPR3099] (ab92336)

Intracellular flow cytometric analysis of permeabilized Molt-4 cells using anti-RUNX1 ab92336 (red) or a rabbit IgG (negative) (green).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-RUNX1 / AML1 + RUNX3 + RUNX2 antibody  
[EPR3099] (ab92336)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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