

**RUNX2 Antibody (S533)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7735d**

**Specification**

**RUNX2 Antibody (S533) - Product Information**

Application	<b>WB, IHC-P, FC,E</b>
Primary Accession	<a href="#">Q13950</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Antigen Region	<b>445-474</b>

**RUNX2 Antibody (S533) - Additional Information**

**Gene ID 860**

**Other Names**

Runt-related transcription factor 2, Acute myeloid leukemia 3 protein, Core-binding factor subunit alpha-1, CBF-alpha-1, Oncogene AML-3, Osteoblast-specific transcription factor 2, OSF-2, Polyomavirus enhancer-binding protein 2 alpha A subunit, PEA2-alpha A, PEBP2-alpha A, SL3-3 enhancer factor 1 alpha A subunit, SL3/AKV core-binding factor alpha A subunit, RUNX2, AML3, CBFA1, OSF2, PEBP2A

**Target/Specificity**

This RUNX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 445-474 amino acids surrounding S465 of human RUNX2.

**Dilution**

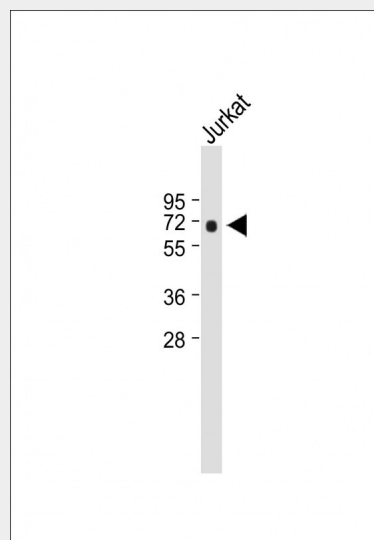
WB~~1:2000  
IHC-P~~1:10~50  
FC~~1:10~50

**Format**

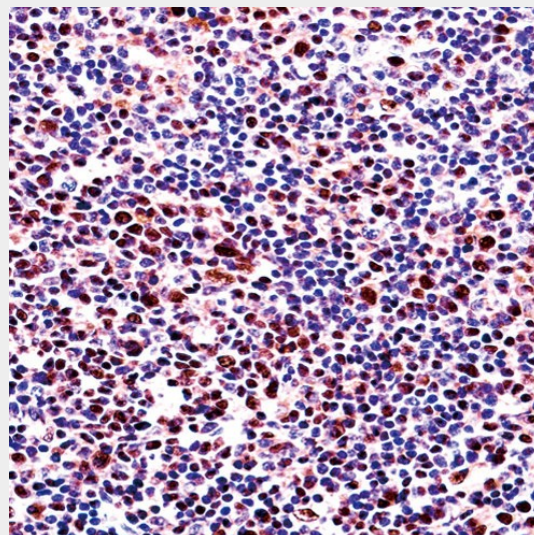
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C



Anti-RUNX2(S465) Antibody at 1:2000 dilution + Jurkat whole cell lysate  
Lysates/proteins at 20 µg per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.  
Predicted band size : 57 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.



RUNX2 Antibody (S465)  
(AP7735d)immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase

in small aliquots to prevent freeze-thaw cycles.

### Precautions

RUNX2 Antibody (S533) is for research use only and not for use in diagnostic or therapeutic procedures.

### RUNX2 Antibody (S533) - Protein Information

**Name** RUNX2

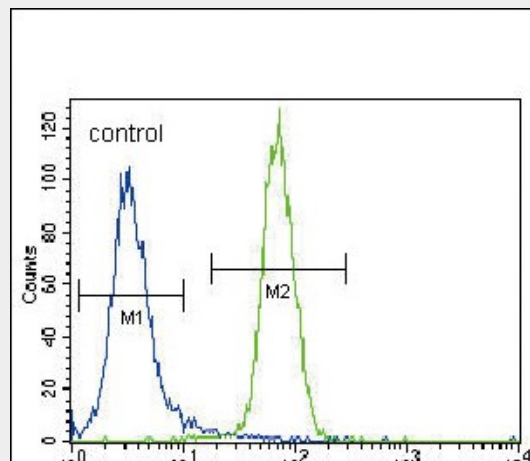
**Synonyms** AML3, CBFA1, OSF2, PEBP2A

### Function

Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis (PubMed:<a href="http://www.uniprot.org/citations/28505335"

target="\_blank">28505335</a>,</p>
</div>
<div class="Text">
<p>PubMed:<a href="http://www.uniprot.org/citations/28738062">28738062</a>,</p>
</div>
<div class="Text">
<p>PubMed:<a href="http://www.uniprot.org/citations/28703881">28703881</a>). Essential</p>
</div>
<div class="Text">
<p>for the maturation of osteoblasts and both intramembranous and endochondral ossification. 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, osteocalcin, osteopontin, bone sialoprotein, alpha 1(I) collagen, LCK, IL-3 and GM-CSF promoters. In osteoblasts, supports transcription activation: synergizes with SPEN/MINT to enhance FGFR2- mediated activation of the osteocalcin FGF-responsive element (OCFRE) (By similarity). Inhibits KAT6B-dependent transcriptional activation.</p>
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<div class="Section-Header">
<h3>Cellular Location</h3>
</div>
<div class="Text">
<p>Nucleus</p>
</div>
<div class="Section-Header">
<h3>Tissue Location</h3>
</div>
<div class="Text">
<p>Specifically expressed in osteoblasts.</p>
</div>
<div class="Section-Header">
<h3>RUNX2 Antibody (S533) - Protocols</h3>
</div>
<div class="Text">
<p>Provided below are standard protocols that you may find useful for product applications.</p>
</div>
<div class="List-Group">
<ul>
<li>• <a href="#">Western Blot</a></li>
</ul>
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conjugation of the secondary antibody and DAB staining. This data demonstrates the use of RUNX2 Antibody (S465) for immunohistochemistry. Clinical relevance has not been evaluated.



RUNX2 Antibody (S465) (Cat. #AP7735d) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### RUNX2 Antibody (S533) - Background

Runx2 is a member of the RUNX family of transcription factors. It is a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. It can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Mutations in the Runx2 gene have been associated with the bone development disorder cleidocranial dysplasia (CCD).

### RUNX2 Antibody (S533) - References

Rich, J.T., Biochem. Biophys. Res. Commun. 372 (1), 230-235 (2008) Ermakov, S., Ann. Hum. Genet. 72 (PT 4), 510-518 (2008) Endo, T., J. Clin. Endocrinol. Metab. 93 (6), 2409-2412 (2008)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**RUNX2 Antibody (S533) - Citations**

- [PELP1 promotes the expression of RUNX2 via the ERK pathway during the osteogenic differentiation of human periodontal ligament stem cells](#)
- [LXR/RXR pathway signaling associated with triple-negative breast cancer in African American women.](#)