

**RUNX2 Polyclonal Antibody**  
**Catalog # AP73539****Specification**

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**RUNX2 Polyclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IF                 |
| Primary Accession | <a href="#">Q13950</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |

**RUNX2 Polyclonal Antibody - Additional Information****Gene ID** 860**Other Names**

RUNX2; AML3; CBFA1; OSF2; PEBP2A; Runt-related transcription factor 2; Acute myeloid leukemia 3 protein; Core-binding factor subunit alpha-1; CBF-alpha-1; Oncogene AML-3Osteoblast-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

**Dilution**

WB~~IF: 1:50-200 Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

IF~~IF: 1:50-200 Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**RUNX2 Polyclonal Antibody - 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>, PubMed:<a href="http://www.uniprot.org/citations/28703881" target="\_blank">28703881</a>, PubMed:<a href="http://www.uniprot.org/citations/28738062" target="\_blank">28738062</a>). Essential 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.

**Cellular Location**

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q08775}

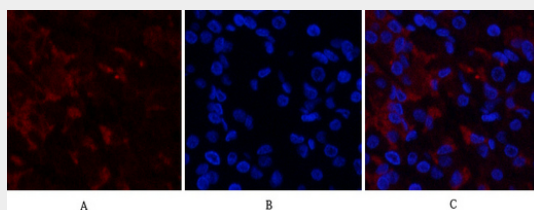
**Tissue Location**

Specifically expressed in osteoblasts.

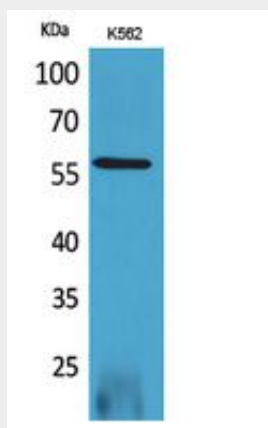
**RUNX2 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

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

**RUNX2 Polyclonal Antibody - Images**

Immunofluorescence analysis of human-stomach tissue. 1, RUNX2 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western Blot analysis of K562 cells using RUNX2 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

**RUNX2 Polyclonal Antibody - Background**

Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis (PubMed:28505335, PubMed:28738062, PubMed:28703881). Essential 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.