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| Basic Information  |  |
|--------------------|--|
| Product Name       | Anti-RUNX2 Antibody  |
| Gene Name          | RUNX2  |
| Source             | Rabbit   |
| lsotype            | IgG  |
| Species Reactivity | human, mouse, rat  |
| Tested Application | WB, ICC/IF   |
| Contents           | 500 ug/ml antibody with PBS $ ightarrow$ 0.02% NaN3 , 1 mg BSA and 50% glycerol.   |
| Immunogen          | A synthetic peptide corresponding to a sequence in the middle region of human<br>RUNX2(244-278aa DRLSDLGRIPHPSMRVGVPPQNPRPSLNSAPSPFN), identical to the related<br>mouse sequence. |
| concentration      | 500 ug/ml  |
| Purification       | Immunogen affinity purified.   |
| Observed MW        | 57KD   |
| Dilution Ratios    | Western blot(WB): 1:500-2000<br>Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400   |

### **Storage**

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

## **Background Information**

Core binding factor A1 (CBFA1/RUNX2) is a runt-like transcription factor essential for osteoblast differentiation. This protein is a member of the RUNX family of transcription factors and has a Runt DNA-binding domain. It is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. RUNX2 plays a non-redundant role for Cbfa1 in tooth development that may be distinct from that in bone formation. In odontogenesis, RUNX2 is not involved in the early signaling networks regulating tooth initiation and early morphogenesis but regulates key epithelial-mesenchymal interactions that control advancing morphogenesis and histodifferentiation of the epithelial enamel organ.

#### Reference

Anti-RUNX2 Antibody被引用在12文献中。

**Selected Validation Data** 

#### Product datasheet Anti-RUNX2 Antibody Catalog Number: PB0171



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Figure 1. Western blot analysis of RUNX2 using anti-RUNX2

lane 1: recombinant human RUNX2 protein 0.5ng. After

Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RUNX2 antigen affinity purified polyclonal

antibody (Catalog # PB0171) at 0.5  $\mu$ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using

an Enhanced Chemiluminescent detection (ECL) kit (Catalog #

EK1002) with Tanon 5200 system. A specific band was detected for RUNX2 at approximately 50KD. The expected band size for RUNX2

antibody (PB0171). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

# 100KD -70KD 55KD 35KD 25KD-15KD



Figure 3.ICC analysis using anti- RUNX2 antibody (PB0171).was detected in immersion fixed A431 cell line . Cells were stained using the Dylight488-conjugated Anti- rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and counterstained with DAPI (blue).

is at 57KD.