

Anti-RUNX2 Antibody

ER1802-78



| | |
|----------------------------|---|
| Product Type: | Rabbit polyclonal IgG, primary antibodies |
| Species reactivity: | Human |
| Applications: | WB, IHC-P, IF-Cell |
| Molecular Wt: | Predicted band size: 57 kDa |

Description: The mammalian Runt-related transcription factor (RUNX) family comprises three members, RUNX1 (also designated AML-1, PEBP2 α B, CBFA2), RUNX2 (also designated AML-3, PEBP2 α A, CBFA1, Osf2) and RUNX3 (also designated AML-2, PEBP α C, CBFA3). RUNX family members are DNA-binding proteins that regulate the expression of genes involved in cellular differentiation and cell cycle progression. RUNX2 is essential for skeletal mineralization in that it stimulates osteoblast differentiation of mesenchymal stem cells, promotes chondrocyte hypertrophy and contributes to endothelial cell migration and vascular invasion of developing bones. Regulating RUNX2 expression may be a useful therapeutic tool for promoting bone formation. Mutations in the C-terminus of RUNX2 are associated with cleidocranial dysplasia syndrome, an autosomal-dominant skeletal dysplasia syndrome that is characterized by widely patent calvarial sutures, clavicular hypoplasia, supernumerary teeth, and short stature.

Immunogen: Synthetic peptide of C-terminal human RUNX2.

Positive control: HL-60 cell lysate, A431, human tonsil tissue, human colon tissue.

Subcellular location: Nucleus.

Database links: SwissProt: Q13950 Human

Recommended Dilutions:

| | |
|----------------|------------|
| WB | 1:500 |
| IF-Cell | 1:50-1:200 |
| IHC-P | 1:50-1:200 |

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Images

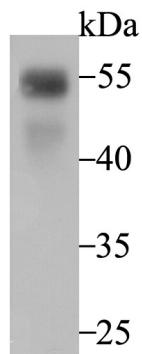


Fig1: Western blot analysis of RUNX2 on HL-60 cell lysate using anti-RUNX2 antibody at 1/500 dilution.

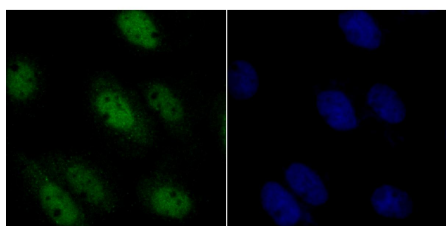


Fig2: ICC staining RUNX2 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

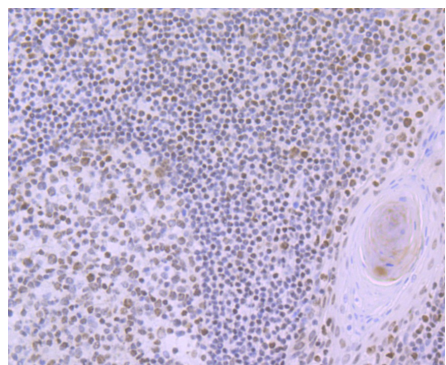


Fig3: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-RUNX2 antibody. Counter stained with hematoxylin.

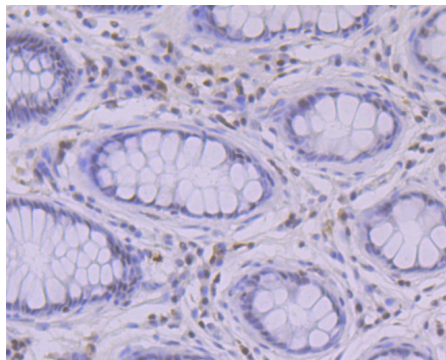


Fig4: Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-RUNX2 antibody. Counter stained with hematoxylin.

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