

BioVision Runx2 Antibody

06/14

For research use only

ALTERNATE NAMES: RUNX2; AML3; CBFA1; OSF2; PEBP2A; Runt-related transcription factor 2; Acute myeloid leukemia 3 protein; Core-binding factor subunit alpha-1; Oncogene AML-3; Osteoblast-specific transcription factor 2; Polyomavirus enhancer-binding protein 2 alpha A subunit; SL3-3 enhancer factor 1 alpha A subunit; SL3/AKV core-binding factor alpha A subunit

CATALOG #: 6773-100

AMOUNT: 100 µl

HOST/ISOTYPE: Rabbit

IMMUNOGEN: This RUNX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 445-474 amino acids surrounding S533 of human RUNX2.

MOLECULAR WEIGHT: ~56.648 kDa

FORM: Liquid

FORMULATION: In PBS with 0.09% (W/V) sodium azide.

PURIFICATION: This antibody is purified through a protein A column, followed by peptide affinity purification.

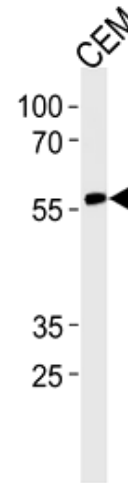
SPECIES REACTIVITY: Human.

STORAGE CONDITIONS: Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

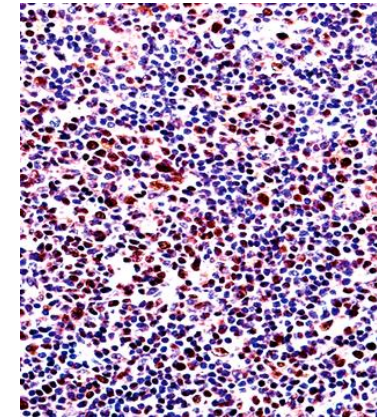
DESCRIPTION: The mammalian Runt-related transcription factor (RUNX) family comprises three members, RUNX1 (also designated AML-1, PEBP2aB, CBFA2), RUNX2 (also designated AML-3, PEBP2aA, CBFA1, Osf2) and RUNX3 (also designated AML-2, PEBP2c, CBFA3). RUNX family members are DNA-binding proteins that regulate 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.

APPLICATION: Western blot: ~1:1000, IHC: 1:10 – 1:50, FACS: 1:10 – 1:50.

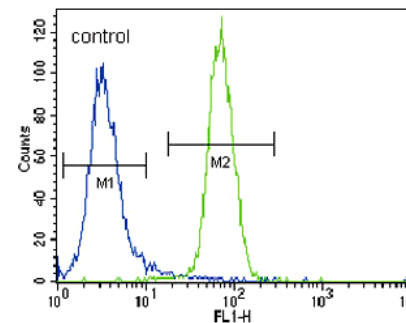
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



RUNX2 Antibody western blot analysis in CEM cell line lysates (35 µg/lane).



RUNX2 Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.



RUNX2 Antibody FACS analysis of NCI-H460 cells (right histogram) compared to negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RELATED PRODUCTS:

- DNA Binding Protein-7 (DBP-7) Antibody (Cat # 3933-100)
- DNA Binding Protein-7 (DBP-7), human recombinant (Cat # 7603-20, -100, -1000)

FOR RESEARCH USE ONLY! Not to be used on humans.