

Rabbit Anti-RUNX2 antibody

SL1134R

Product Name:	RUNX2
Chinese Name:	核心结合因子a1/成骨特异性转录因子/Cbfa1抗体
Alias:	RUNX2_HUMAN; Runt-related Transcription Factor 2; CBF alpha 1; CBF-alpha-1; PEBP2-alpha A; CBFA1; CCD; CCD1; Cleidocranial dysplasia 1; Core binding factor; Core binding factor runt domain alpha subunit 1; Core binding factor subunit alpha 1; MGC120023; Oncogene AML 3; OSF 2; OSF2; OSF-2; Osteoblast specific transcription factor 2; OTTHUMP00000016533; PEA2 alpha A; PEBP2A1; PEBP2A2; PEBP2aA1; Polyomavirus enhancer binding protein 2 alpha A subunit; Runt domain; Runt related transcription factor 2; SL3 3 enhancer factor 1 alpha A subunit; SL3/AKV core binding factor alpha A subunit; AML3; CLCD.
	Specific References(3) SL1134R has been referenced in 3 publications.
	[IF=3.68]Zhang, Ping, et al. "Contribution of SATB2 to the stronger osteogenic
	potential of bone marrow stromal cells from craniofacial bones." Cell and Tissue
	Research 350.3 (2012): 425-437. WB;Rat .
	PubMed:22237862
文献引用	[IF=1.20]Hu, Fei, et al. "High expression of periostin is dramatically associated with
Pub Med	metastatic potential and poor prognosis of patients with osteosarcoma." World Journal of
:	Surgical Oncology 12.1 (2014): 287.IHC-P;Human.
	PubMed:25224568
	[IF=1.56]Li, Pengcui, et al. "Blockade of hypoxia-induced CXCR4 with AMD3100
	inhibits production of OA-associated catabolic mediators IL-1β and MMP-13."
	Molecular Medicine Reports. WB; Human.
	PubMed:27356492
Organism Species:	Rabbit

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heterodimerization. Interacts with G22P1 (Ku70) and XRCC5 (Ku80). Interacts with MYST3 and MYST4.

Subcellular Location:

Nucleus.

Tissue Specificity:

Specifically expressed in osteoblasts.

Post-translational modifications:

Phosphorylated; probably by MAP kinases (MAPK). Isoform 3 is phosphorylated on Ser340.

DISEASE:

Defects in RUNX2 are the cause of cleidocranial dysplasia (CLCD) [MIM:119600]; also known as cleidocranial dysostosis (CCD). CLCD is an autosomal dominant skeletal disorder with high penetrance and variable expressivity. It is due to defective endochondral and intramembranous bone formation. Typical features include hypoplasia/aplasia of clavicles, patent fontanelles, wormian bones (additional cranial plates caused by abnormal ossification of the calvaria), supernumerary teeth, short stature, and other skeletal changes. In some cases defects in RUNX2 are exclusively associated with dental anomalies.

Similarity:

Contains 1 Runt domain.

SWISS: O13950

Gene ID:

860

Database links:

Entrez Gene: 860Human

Entrez Gene: 12393Mouse

Entrez Gene: 100155806Pig

Entrez Gene: 367218Rat

Omim: 600211Human

SwissProt: Q13950Human

SwissProt: Q9XSB7Horse

SwissProt: Q08775Mouse

SwissProt: Q9Z2J9Rat

Unigene: 535845Human

Unigene: 391013 Mouse

Unigene: 391017Mouse

Unigene: 214214Rat

Unigene: 83672Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

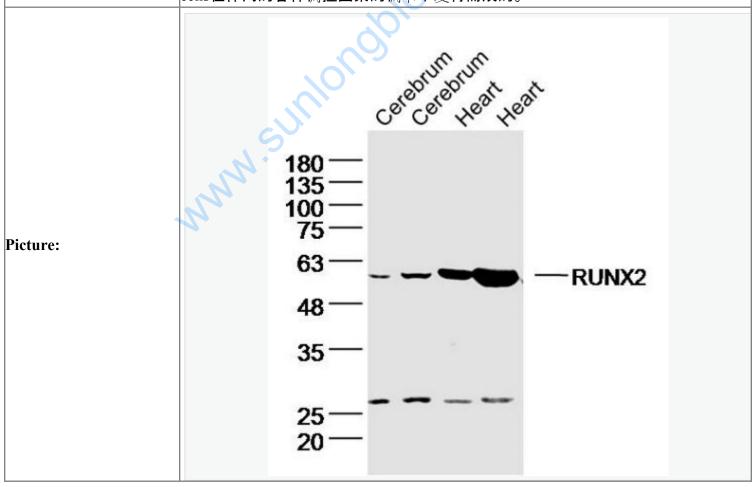
RUNX2又称: Cbfα1(Core-binding factor, alpha 3 subunit)

是新发现的一类调控间充质Stem

cells向成骨方向分化的特异性转录因子,参与骨形成,骨骼生长和发育的一类重要细

胞,它起源于多能间充质Stem cells,是间充质Stem

cells在体内的各种调控因素的调节下发育而成的。



Sample:

Cerebrum (mouse) Lysate at 40 ug

Cerebrum (Rat) Lysate at 40 ug

Heart (mouse) Lysate at 40 ug

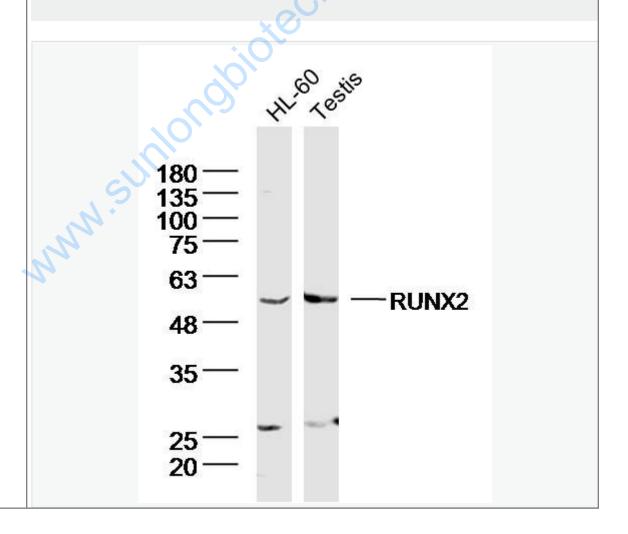
Heart (Rat) Lysate at 40 ug

Primary: Anti- RUNX2 (SL1134R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57/67 kD

Observed band size: 57 kD



Sample:

HL-60(human)Cell Lysate at 40 ug

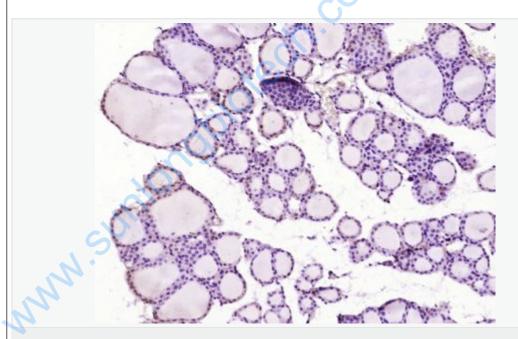
Testis (mouse)l Lysate at 40 ug

Primary: Anti- RUNX2 (SL1134R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

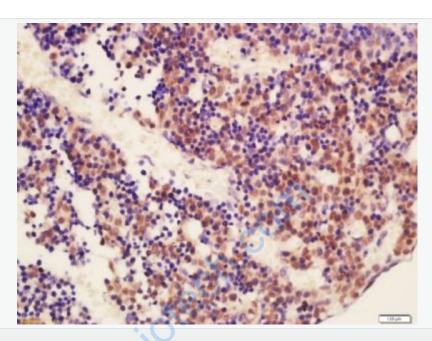
Predicted band size: 57/67 kD

Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse esophagus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RUNX2) Polyclonal Antibody, Unconjugated (SL1134R) at 1:400 overnight at 4°C, followed by operating

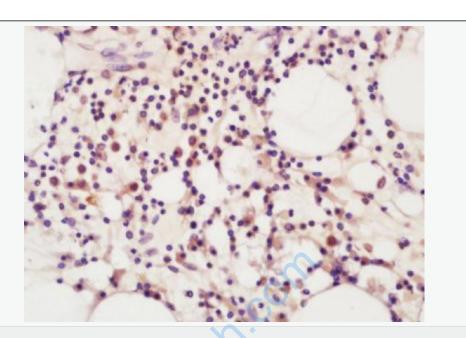
according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffinembedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;

Incubation: Anti-Sialoadhesin Polyclonal Antibody, Unconjugated(SL1134R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human whirlbone; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-RUNX2 Polyclonal Antibody, Unconjugated(SL1134R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining