



## Rabbit Anti-phospho-RUNX2 (Ser451) antibody

SL5685R

<b>Product Name:</b>	phospho-RUNX2 (Ser451)
<b>Chinese Name:</b>	磷酸化成骨特异性转录因子抗体
<b>Alias:</b>	RUNX2(phospho S451); Runt-related Transcription Factor 2; CBF alpha 1; 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; Osteoblast specific transcription factor 2; OTTHUMP00000016533; PEA2 alpha A; PEA2aA; PEBP2 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.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Chicken,Dog,Pig,Cow,Horse,
<b>Applications:</b>	ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	67kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human RUNX2 around the phosphorylation site of Ser451:TS(p-S)GS
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PubMed:**[PubMed](#)

Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis. 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 (By similarity). Inhibits MYST4-dependent transcriptional activation.

**Subunit:**

Heterodimer of an alpha and a beta subunit. Interacts with HIVEP3 (By similarity). The alpha subunit binds DNA as a monomer and through the Runt domain. DNA-binding is increased by heterodimerization. Interacts with G22P1 (Ku70) and XRCC5 (Ku80). Interacts with MYST3 and MYST4.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Specifically expressed in osteoblasts.

**Similarity:**

Contains 1 Runt domain.

**Product Detail:****SWISS:**

Q13950

**Gene ID:**

860

**Database links:**

[Entrez Gene: 860](#)Human

[Entrez Gene: 12393](#)Mouse

[Entrez Gene: 100155806](#)Pig

[Entrez Gene: 367218](#)Rat

[Omim: 600211](#)Human

[SwissProt: Q13950](#)Human

[SwissProt: Q9XSB7](#)Horse

[SwissProt: Q08775](#)Mouse

[SwissProt: Q9Z2J9](#)Rat

[Unigene: 535845](#)Human

[Unigene: 391013](#)Mouse

[Unigene: 391017](#)Mouse

[Unigene: 214214](#)Rat

[Unigene: 83672](#)Rat

**Important Note:**

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

RUNX2又称: Cbfa1(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。

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