## [ Primary Antibody ]

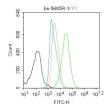
## phospho-RUNX2 (Ser451) Rabbit pAb



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– DATASHEET –		400-901-9800
Host: Rabbit	lsotype: IgG	Applications: Flow-Cyt (lug/Test)
Clonality: Polyclonal	-	Reactivity: Human (predicted: Pig,
GenelD: 860	<b>SWISS:</b> Q13950	Cow, Chicken, Dog, Horse)
Target: RUNX2 (Ser451)		
	nthesised phosphopeptide derived from phosphorylation site of Ser451: TS(p-S)G	
Purification: affinity purified by Protein A		Subcollular
Concentration: 1mg/ml		Subcellular Location: <sup>Nucleus</sup>
Glycerol.	with 1% BSA, 0.02% Proclin300 and 50% ore at -20°C for one year. Avoid repeated	
and encodes a nuc This protein is esse morphogenesis an regulatory factors can bind DNA both subunit of a hetero been associated w dysplasia (CCD). Tr isoforms result from	ber of the RUNX family of transcription fa lear protein with an Runt DNA-binding do ntial for osteoblastic differentiation and d acts as a scaffold for nucleic acids and nvolved in skeletal gene expression. The as a monomer or, with more affinity, as a dimeric complex. Mutations in this gene ith the bone development disorder cleido anscript variants that encode different p n the use of alternate promoters as well [provided by RefSeq, Jul 2008].	omain. skeletal protein a have ocranial rotein

## — VALIDATION IMAGES -



Blank control:HL-60. Primary Antibody (green line): Rabbit Anti-phospho-RUNX2 (Ser451) antibody (bs-5685R) Dilution:  $1\mu g / 10^{6}$  cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution:  $1\mu g$  /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block nonspecific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## - SELECTED CITATIONS -

• [IF=9.078] Tzu-Hsiang Lin. et al. A bilineage thermosensitive hydrogel system for stimulation of mesenchymal stem cell differentiation and enhancement of osteochondral regeneration. Compos Part B-Eng. 2022 Jan;:109614 ICC ;Rabbit.

10.1016/j.compositesb.2022.109614

- [IF=5.168] Kim et al. Characterization of CADD522, a small molecule that inhibits RUNX2-DNA binding and exhibits antitumor activity. (2017) Oncotarget. 8:70916-70940 WB ;Human. 29050333
- [IF=4.165] Yu-Ting Yen. et al. PP2A in LepR+ mesenchymal stem cells contributes to embryonic and postnatal endochondral ossification through Runx2 dephosphorylation. Commun Biol. 2021 Jun;4(1):1-12 WB,IHC ;MOUSE. 34079065
- [IF=3.08] Wang et al. Human Amnion-Derived Mesenchymal Stem Cells Protect Human Bone Marrow Mesenchymal Stem Cells against Oxidative Stress-Mediated Dysfunction via ERK1/2 MAPK Signaling. (2016) Mol.Cells. 39:186-94 FCM ;Human. 26743906
- [IF=3.201] Nagy A et al. Zinc Inhibits HIF-Prolyl Hydroxylase Inhibitor-Aggravated VSMC Calcification Induced by High Phosphate. Front Physiol. 2020 Jan 15;10:1584. WB ;Human. 32009983