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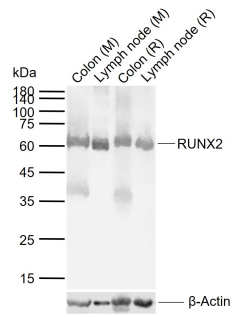
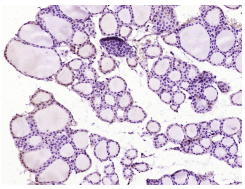
RUNX2 Rabbit pAb

Catalog Number:	bs-1134R
Target Protein:	RUNX2
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)
Predicted MW:	57(hu)/67(mo,rat) kDa
Entrez Gene:	860
Swiss Prot:	Q13950
Source:	KLH conjugated synthetic peptide derived from human RUNX2: 202-300/521.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Mutations in this gene have been associated with the bone development disorder cleidocranial dysplasia (CCD). Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq, Jul 2008].

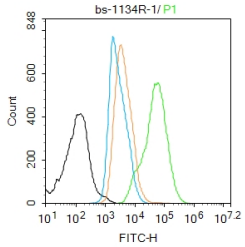
VALIDATION IMAGES



Sample: Lane 1: Mouse Colon tissue lysates Lane 2: Mouse Lymph node tissue lysates Lane 3: Rat Colon tissue lysates Lane 4: Rat Lymph node tissue lysates Primary: Anti-RUNX2 (bs-1134R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57/67 kDa Observed band size: 60 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse thyroid); 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 (bs-1134R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:HL-60. Primary Antibody (green line): Rabbit Anti-RUNX2 antibody (bs-1134R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /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 non-specific 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=18.5] Yizhou Zhu. et al. Photocurrent-Directed Immunoregulation Accelerates Osseointegration through Activating Calcium Influx in Macrophages. ADV FUNCT MATER. 2024 Oct;:2406095 IHC ; Rat . 10.1002/adfm.202406095

[IF=17.1] Lu Tan. et al. Mechanically Robust Hemostatic Hydrogel Membranes with Programmable Strain-Adaptive Microdomain Entanglement for Wound Treatment in Dynamic Tissues. ACS NANO. 2024;XXXX(XXX):XXX-XXX IHC ; Rat . 38457334

[IF=17.2] Chen Renjie. et al. Bioactive Glass-Reinforced Hybrid Microfibrous Spheres Promote Bone Defect Repair via Stem Cell Delivery. ADV FIBER MATER. 2024 Sep;:1-14 IHC ; Rat . 10.1007/s42765-024-00481-x

[IF=14.919] Lu, Gonggong. et al. An instantly fixable and self-adaptive scaffold for skull regeneration by autologous stem cell recruitment and angiogenesis. NAT COMMUN. 2022 May;13(1):1-20 IF ; Rabbit . 35523800

[IF=14.9] Jin Yizhou. et al. METTL7A-mediated m6A modification of corin reverses bisphosphonates-impaired osteogenic differentiation of orofacial BMSCs. INT J ORAL SCI. 2024 May;16(1):1-11 IHC,WB ; Mouse . 38782892