

# RUNX2 Recombinant Rabbit Monoclonal Antibody (6H4L27)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	6H4L27
Conjugate	Unconjugated
Immunogen	Protein corresponding to human RUNX2 [aa235-aa400]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2725282

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:1,000	1 Publication

### Product Specific Information

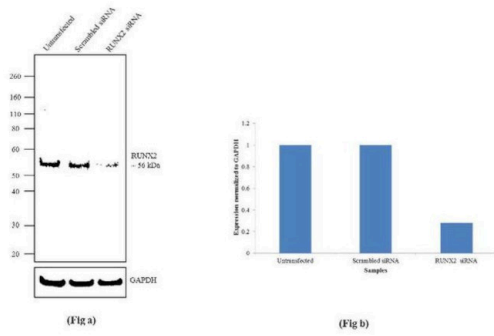
This antibody is predicted to react with Monkey, Pig, Mouse, Rat.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

### Product Images For RUNX2 Recombinant Rabbit Monoclonal Antibody (6H4L27)

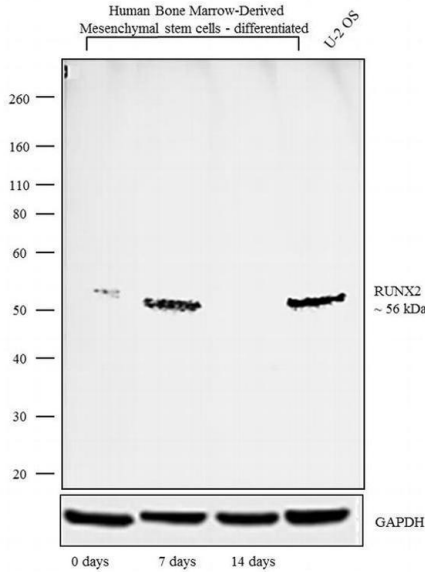
### RUNX2 Antibody (702489)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MD-AMB-231 cells were transfected with RUNX2 siRNA and decrease in signal intensity was observed in Western blot application using Anti-RUNX2 Recombinant Rabbit Monoclonal Antibody (Product # 702489). {KD}



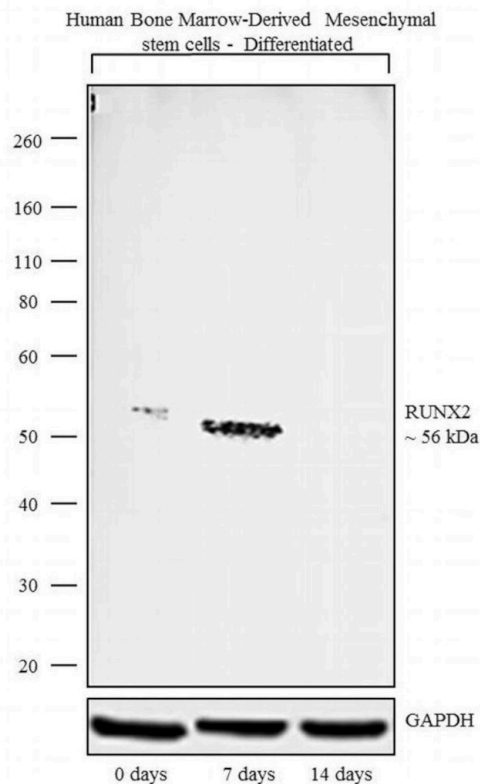
### RUNX2 Antibody (702489) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of differentiated osteoblasts from Human bone marrow derived mesenchymal stem cells at different stages such as Day 0 (Lane 1), Day 7 (Lane 2) and Day 14 (Lane 3) along with U-2 OS (Lane 4). The invitro osteogenesis differentiation was performed using StemPro™ Osteogenesis Differentiation Kit, (Product # A1007201) as per the manufacturer instructions. The blots were probed with Anti-RUNX2 Recombinant Rabbit Monoclonal Antibody (Product # 702489, 1:200 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution). A ~56 kDa band corresponding to RUNX2 was observed in U-2 OS cells and in early differentiation stages (Day 7).



### RUNX2 Antibody (702489)

Antibody specificity was demonstrated by detection of differential expression of the target across different stages of osteogenesis differentiation from Human Bone marrow derived mesenchymal stem cells using StemPro™ Osteogenesis Differentiation Kit, (Product # A1007201) as per the manufacturer instructions. Expression of RUNX2 was observed specifically in Day 7 of differentiation and decreased or no expression was detected at Day 0 and Day 14 of differentiation using Anti-RUNX2 Recombinant Rabbit Monoclonal Antibody (Product # 702489, 1:200 dilution) in Western blot. {RE}



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1 Reference

Western Blot (1)

Annals of translational medicine	Year 2022
High glucose inhibits the osteogenic differentiation of periodontal ligament stem cells in periodontitis by activating endoplasmic reticulum stress.	Species Human
"702489 was used in Western Blot to suggest that high glucose inhibits the osteogenic differentiation ability of PDLSCs by activating ER stress, which ultimately exacerbates periodontitis."	Dilution 1:1000
Authors: Tan J,Zhou Y,Luo J,Wu X,Liu H,Wang W,Li Z,Zhong M,Wu L,Li X	

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