

Anti-RUNX2 Monoclonal Antibody

Catalog Number: M00442

About RUNX2

C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.

Overview

Product Name	Anti-RUNX2 Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RUNX2 Monoclonal Antibody catalog # M00442. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal HCO-18
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13950

Technical Details

Immunogen	A synthesized peptide derived from human RUNX2.
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:

	WB 1:500-1:2000 IHC 1:100-1:500 ICC/IF 1:50-1:200
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Anti-RUNX2 Monoclonal Antibody (M00442) Images

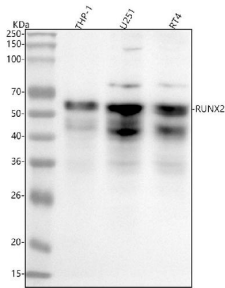


Figure 1. Western blot analysis of RUNX2 using anti-RUNX2 antibody (M00442).

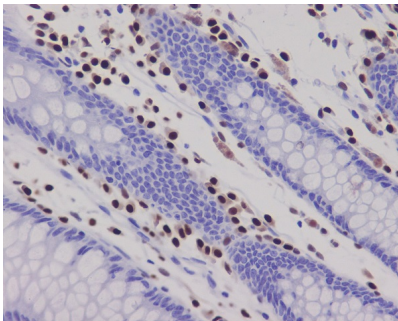
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human THP-1 whole cell lysates,

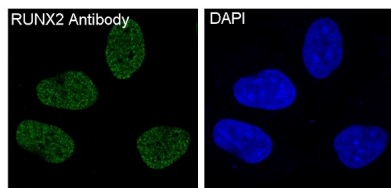
Lane 2: human U251 whole cell lysates,

Lane 3: human RT4 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RUNX2 antigen affinity purified monoclonal antibody (Catalog # M00442) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for RUNX2 at approximately 57 kDa. The expected band size for RUNX2 is at 57 kDa.



Immunohistochemical analysis of paraffin-embedded human colon, using RUNX2 Antibody.



Immunofluorescent analysis of Saos-2 cells, using RUNX2 Antibody.

6 Publications Citing This Product

1. PubMed ID: 32018039, Chen G, Wang Q, Li Z, Yang Q, Liu Y, Du Z, Zhang G, Song Y. Circular RNA CDR1as promotes adipogenic and suppresses osteogenic differentiation of BMSCs in steroid-induced osteonecrosis of the femoral head. Bone. 2020 Apr;133:115258. doi:10.1016/j.bone.2020.115258. Epub
2. PubMed ID: 29213288, Yao S, Zhao W, Ou Q, Liang L, Lin X, Wang Y. Stem Cells Int. 2017;2017:3028647. doi: 10.1155/2017/3028647. Epub 2017 Oct 29. MicroRNA-214 Suppresses Osteogenic Differentiation of Human Periodontal Ligament Stem Cells by Targeting ATF4
3. PubMed ID: 28253279, Liu Q, Ma Y, Wang J, Zhu X, Yang Y, Mei Y. PLoS One. 2017 Mar 2;12(3):e0172693. doi: 10.1371/journal.pone.0172693.

eCollection 2017. Demineralized bone matrix used for direct pulp capping in rats

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