

# Product Datasheet

## **RUNX2/CBFA1 Antibody (SD208-0)** **NBP2-67777**

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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**NBP2-67777****RUNX2/CBFA1 Antibody (SD208-0)**

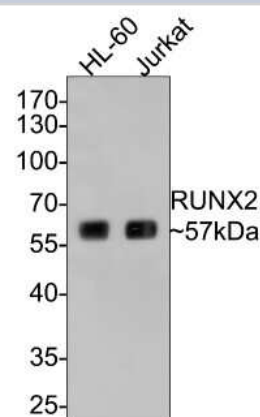
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SD208-0
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol
Target Molecular Weight	57 kDa

Product Description	
Host	Rabbit
Gene ID	860
Gene Symbol	RUNX2
Species	Human, Mouse, Rat
Immunogen	Recombinant protein within human RUNX2/CBFA1 (SwissProt: Q13950 Human; SwissProt: Q08775 Mouse; SwissProt: Q9Z2J9 Rat)

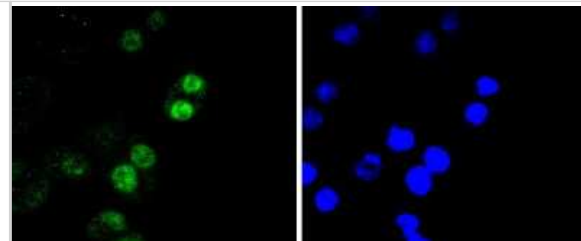
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:1000, Flow Cytometry 1:5000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:50-1:200

**Images**

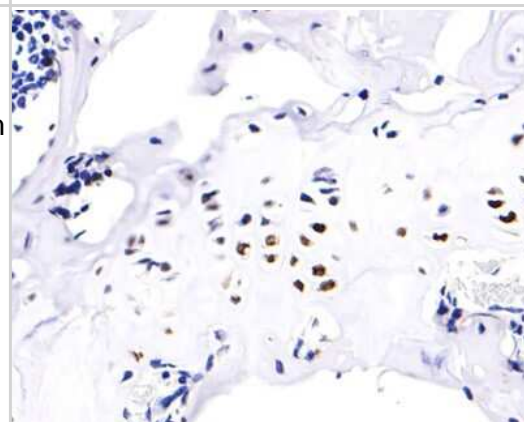
Western Blot: RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of RUNX2/CBFA1 on different lysates with Rabbit anti-RUNX2/CBFA1 antibody at 1/500 dilution. Lane 1: HL-60 cell lysate Lane 2: Jurkat cell lysate Lysates/proteins at 10 ug/Lane. Predicted band size: 57 kDa Observed band size: 57 kDa Exposure time: 1 minute; 10% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



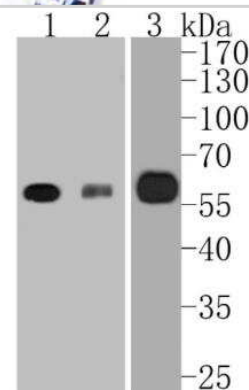
**Immunocytochemistry/Immunofluorescence:** RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Staining RUNX2 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



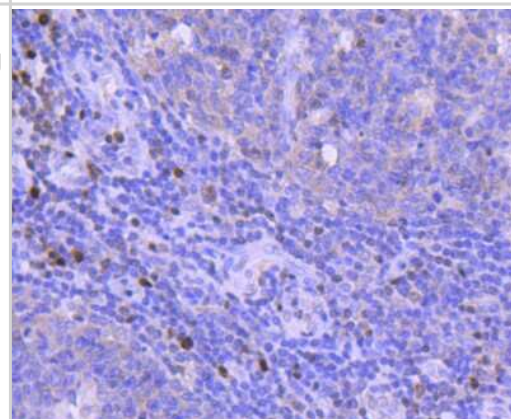
**Immunohistochemistry-Paraffin:** RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of paraffin-embedded mouse bone tissue with Rabbit anti-RUNX2/CBFA1 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Western Blot:** RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of RUNX2 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: mouse spleen tissue lysate Lane 2: U937 cell lysate Lane 3: HL-60 cell lysate

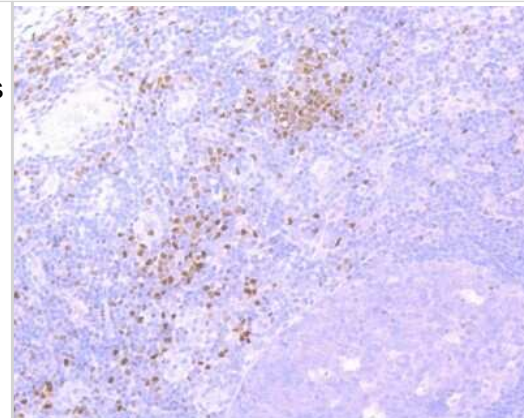


**Immunohistochemistry-Paraffin:** RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of paraffin-embedded human tonsil tissue using anti-RUNX2 antibody. Counter stained with hematoxylin.

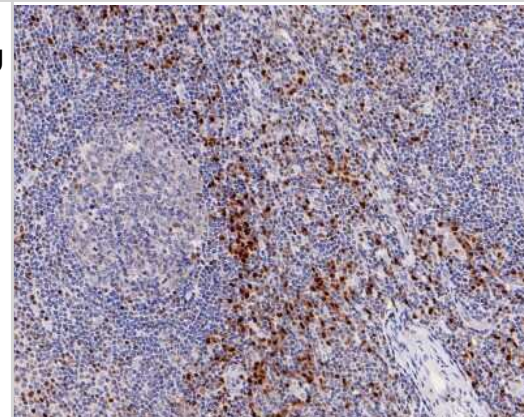




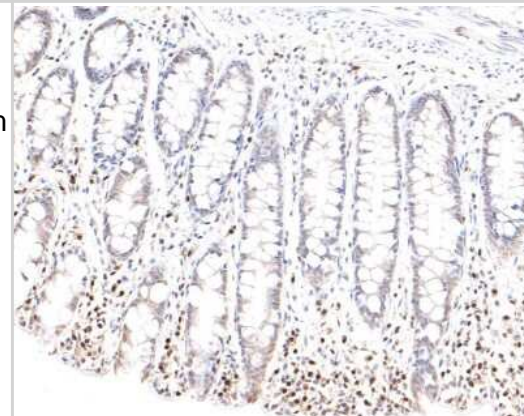
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-RUNX2/CBFA1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



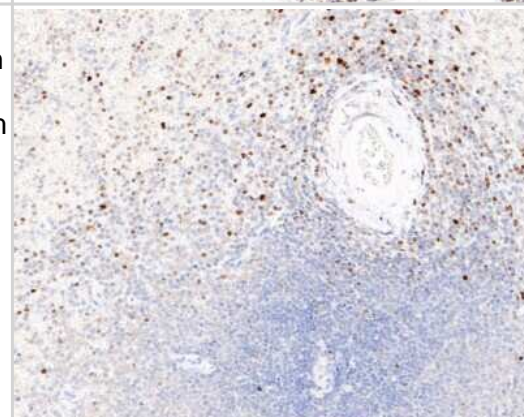
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of paraffin-embedded human tonsil tissue using anti-RUNX2/CBFA1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of paraffin-embedded human colon tissue with Rabbit anti-RUNX2/CBFA1 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody (SD208-0) [NBP2-67777] - Analysis of paraffin-embedded human spleen tissue with Rabbit anti-RUNX2/CBFA1 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Das S, Mondal A, Dey C et al. ER stress induces upregulation of transcription factor Tbx20 and downstream Bmp2 signaling to promote cardiomyocyte survival The Journal of biological chemistry 2023-02-15 [PMID: 36805334]



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### **Products Related to NBP2-67777**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-24755PEP	RUNX2/CBFA1 Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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