

Product Datasheet

RUNX2/CBFA1 Antibody - BSA Free NBP1-89104

Unit Size: 0.1 ml

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

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NBP1-89104

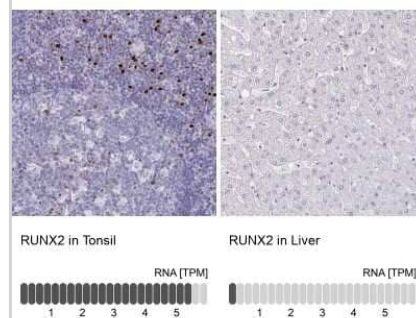
RUNX2/CBFA1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	56.6 kDa
Product Description	
Host	Rabbit
Gene ID	860
Gene Symbol	RUNX2
Species	Human, Mouse
Reactivity Notes	Expected reactivity in Rat (81%). Mouse reactivity reported in scientific literature (PMID: 26489514).
Immunogen	This RUNX2/CBFA1 Antibody was developed against Recombinant Protein corresponding to amino acids: LNSAPSPFN PQGQS QITDPRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTTPLS STRGTGLPAITDVPRRISGASELGPFS DPRQFSPSISL TESRF SNPRMHYPA
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 µg/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 µg/ml, Immunohistochemistry-Paraffin 1:200-1:500, Immunohistochemistry-Frozen Reported in scientific literature (PMID: 30888720), Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

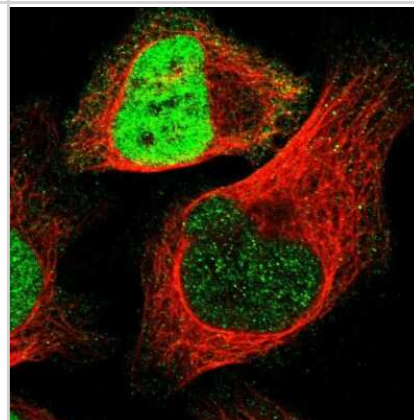


Images

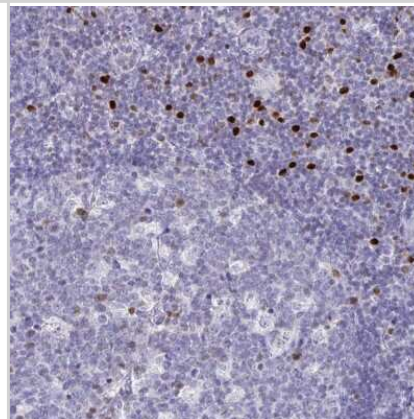
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody [NBP1-89104]
 - Staining in human tonsil and liver tissues . Corresponding RUNX2 RNA-seq data are presented for the same tissues.



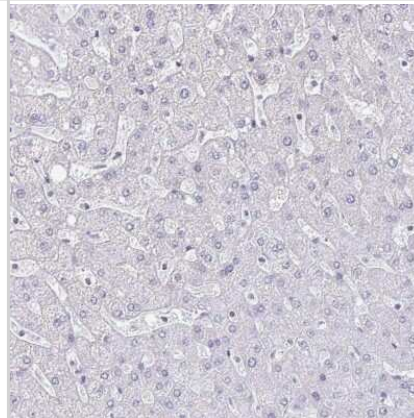
Immunocytochemistry/Immunofluorescence: RUNX2/CBFA1 Antibody [NBP1-89104] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



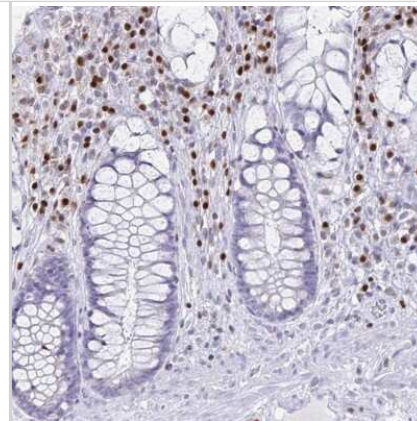
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody [NBP1-89104]
 - Staining of human tonsil shows moderate to strong nuclear positivity in a subset lymphoid cells.



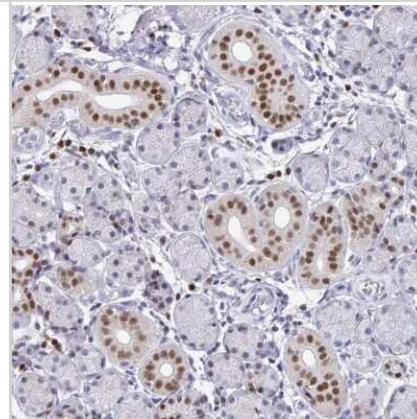
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody [NBP1-89104]
 - Staining of human liver shows no positivity as expected.



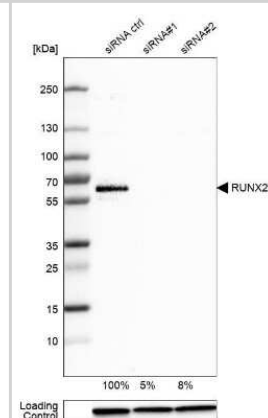
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody [NBP1-89104]
- Staining of human rectum shows moderate to strong nuclear positivity in lymphoid cells.



Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody [NBP1-89104]
- Staining of human salivary gland shows moderate to strong nuclear positivity in ductal cells.



Knockdown Validated: RUNX2/CBFA1 Antibody [NBP1-89104] -
Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented.
Loading control: Anti-GAPDH.



Publications

C. Tsutsumi-Arai, Y. Arai, A. Tran, M. Salinas, Y. Nakai, S. Orikasa, W. Ono, N. Ono A PTHrP Gradient Drives Mandibular Condylar Chondrogenesis via Runx2 *Journal of Dental Research* 2023-12-06 [PMID: 38058151]

Khalmuratova R, Shin H, Kim D et al. Interleukin (IL)-13 and IL-17A contribute to neo-osteogenesis in chronic rhinosinusitis by inducing RUNX2 *EBioMedicine* 2019-07-19 [PMID: 31331833] (IF/IHC, IF, Human)

Mizunashi K, Nagata M, Matsushita Y et al. Growth plate borderline chondrocytes behave as transient mesenchymal precursor cells *J. Bone Miner. Res.* 2019-03-19 [PMID: 30888720] (IHC-Fr, Mouse)

Ferrari N, Riggio AI, Mason S et al. Runx2 contributes to the regenerative potential of the mammary epithelium. *Sci Rep* 2015-10-22 [PMID: 26489514] (WB, IF/IHC, Mouse)

McDonald L, Ferrari N, Terry A et al. RUNX2 correlates with subtype-specific breast cancer in a human tissue microarray, and ectopic expression of Runx2 perturbs differentiation in the mouse mammary gland. *Dis Model Mech* 2014-05-01 [PMID: 24626992] (IF/IHC, Mouse)

Martinez-Abadias N, Holmes G, Pankratz T et al. From shape to cells: mouse models reveal mechanisms altering palate development in Apert syndrome. *Dis Model Mech* 2013-05-01 [PMID: 23519026]



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Products Related to NBP1-89104

NBP1-89104PEP	RUNX2/CBFA1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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