Product Datasheet

Collagen IX alpha 2 Antibody - BSA Free
NBP2-30450

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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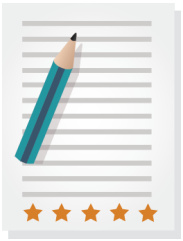
Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-30450

Updated 9/9/2025 v.20.1



NBP2-30450

Collagen IX alpha 2 Antibody - BSA Free

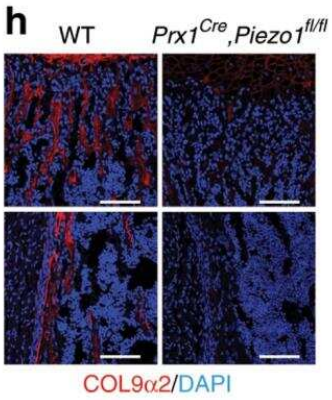
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit Collagen IX alpha 2 Antibody - BSA Free (NBP2-30450) is a polyclonal antibody validated for use in IHC and ICC/IF. Anti-Collagen IX alpha 2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1298
Gene Symbol	COL9A2
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID:31941964).
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: PGKPGRPGTIQGLEGSADFLCPTNCPPGMKGPPGLQGV

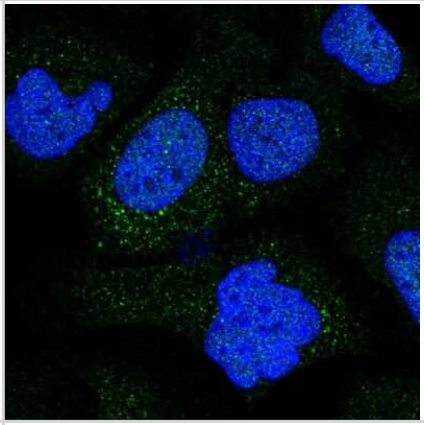
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry Image collected and cropped by CiteAb from the following publication (http://www.nature.com/articles/s41467-019-14146-6) licensed under a CC-BY license., Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

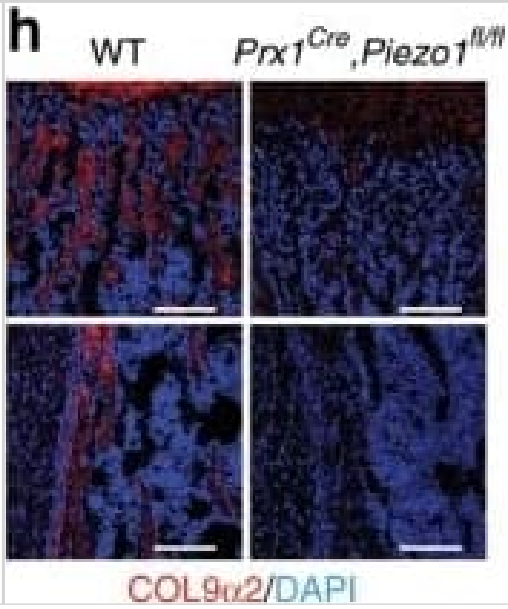
Immunohistochemistry: Collagen IX alpha 2 Antibody [NBP2-30450] - Immunofluorescence assay of COL9 alpha2 (h) of the distal femurs of 3-day-old WT and Prx1Cre, Piezo1fl/fl mice. Scale bar = 100 um. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-019-14146-6) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: Collagen IX alpha 2 Antibody [NBP2-30450] - Immunofluorescent staining of human cell line U-2 OS shows localization to nucleus & vesicles. Antibody staining is shown in green.



Immunocytochemistry/ Immunofluorescence: Collagen IX alpha 2 Antibody [NBP2-30450] - Col2α1 & Col9α2 mediated the inhibition of bone resorption by PIEZO1. (g, h) Immunofluorescence assay of COL2α1 (g) & COL9α2 (h) of distal femurs of 3-day-old WT & Prx1Cre, Piezo1fl/fl mice. Scale bar = 100 μm. i, j QPCR analysis of Col2α1 (i) & Col9α2 (j) in BMSCs-derived osteoblasts from WT & Prx1Cre, Piezo1fl/fl mice endured w/ 0.5 Hz, 1% intensity compression for 4 h by FlexCell compression system. *P < 0.05; **P < 0.01. Ordinary one-way ANOVA. Data are mean ± SD, n = 4. k–l Osteoclastogenesis by OB-OC co-culture in vitro using BMSCs-derived osteoblasts from WT & Prx1Cre, Piezo1fl/fl mice infected w/ Ctrl, Col2α1 & Col9α2 lenti-virus, respectively. k TRAP staining of osteoclasts in co-culture system. Scale bar = 100 μm. l Co-culture supernatants measured for TRAP activity via colorimetric readout (A405). *P < 0.05; **P < 0.01. Ordinary one-way ANOVA. Data are mean ± SD, n = 3. Source data are provided in Source Data File. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31941964), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang L, You X, Lotinun S et al. Mechanical sensing protein PIEZO1 regulates bone homeostasis via osteoblast-osteoclast crosstalk Nat Commun 2020-01-15 [PMID: 31941964] (Mouse)

Hartman BH, Durruthy-Durruthy R, Laske RD et al. Identification and characterization of mouse otic sensory lineage genes. Front Cell Neurosci 2015-01-01 [PMID: 25852475] (IF/IHC)

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Products Related to NBP2-30450

NBP2-30450PEP	Collagen IX alpha 2 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

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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