

Product Datasheet

COX-1 Antibody - BSA Free

NBP1-85500

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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NBP1-85500

COX-1 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

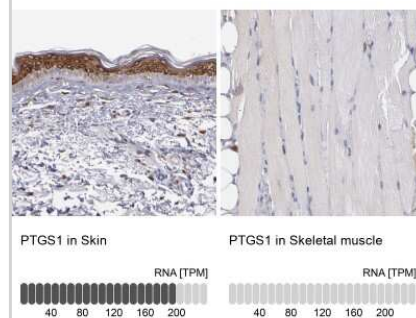
Product Description	
Description	Novus Biologicals Rabbit COX-1 Antibody - BSA Free (NBP1-85500) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-COX-1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5742
Gene Symbol	PTGS1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported from a verified customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: MPDSFKVGSQEYSYEQFLFNTSMLVDYGV EALVDAFSRQIAGRIGGGRNMDH HILHVAVDVIRE SREMLQPFNEYRKRFGMKPYTSFQELVGEKEMAAELEELY GDIDALEFY PGLLLEKCHPNSIFGESMIEIGAPFSLKGLLGN

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization, Use PFA/Triton X-100. COX-1 antibody validated for Simple Western from a verified customer review. See Simple Western Antibody Database for Simple Western validation: Tested in Mouse tail vein lysates, separated by Size, apparent MW was 70 kDa

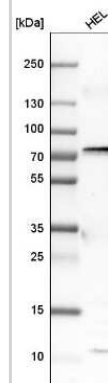


Images

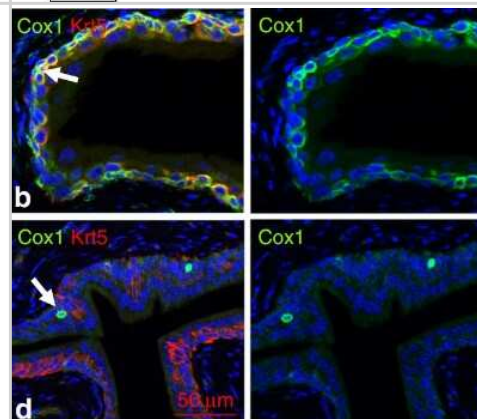
Immunohistochemistry-Paraffin: COX-1 Antibody [NBP1-85500] - Staining in human skin and skeletal muscle tissues using anti-PTGS1 antibody. Corresponding PTGS1 RNA-seq data are presented for the same tissues.



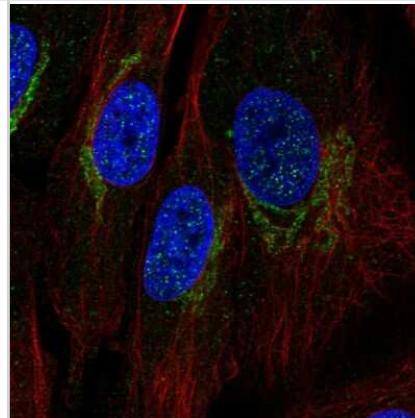
Western Blot: COX-1 Antibody [NBP1-85500] - Analysis in human cell line HELA.



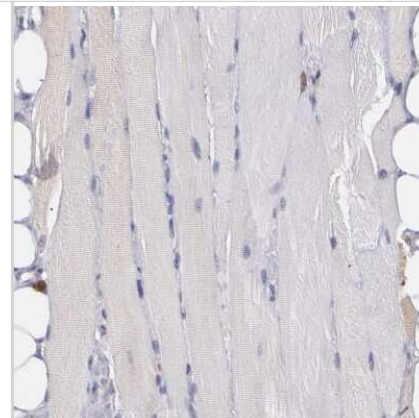
COX-1-Antibody-Immunocytochemistry-Immunofluorescence-NBP1-85500-img0014.jpg



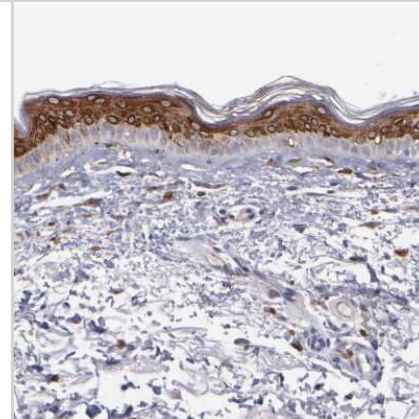
Immunocytochemistry/Immunofluorescence: COX-1 Antibody [NBP1-85500] - Staining of human cell line BJ shows localization to the Golgi apparatus. Antibody staining is shown in green.



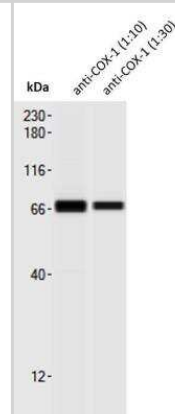
Immunohistochemistry-Paraffin: COX-1 Antibody [NBP1-85500] - Staining of human skeletal muscle shows low expression as expected.



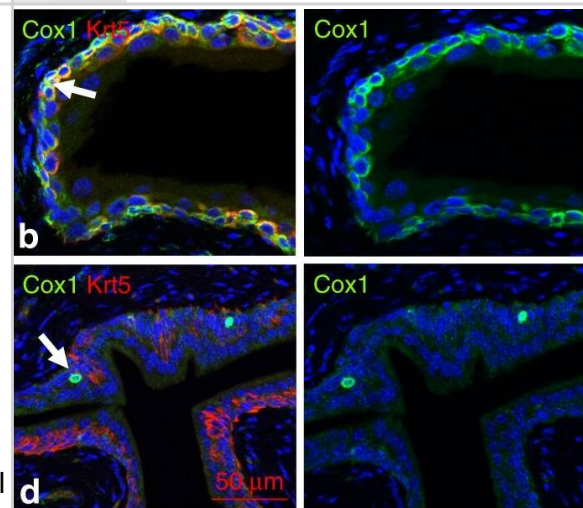
Immunohistochemistry-Paraffin: COX-1 Antibody [NBP1-85500] - Staining of human skin shows high expression.



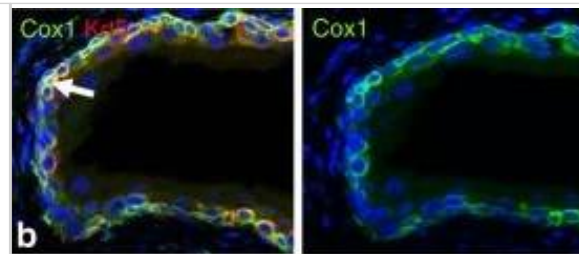
Simple Western: COX-1 Antibody [NBP1-85500] - Lane view shows one specific signal (~70kDa) in lysates prepared from the mouse tail vein. Image from a verified customer review.



Validation of gene expression changes from RNA-Seq experiments. a, c Expression of *Cpt2* and *Krt5* in the urothelium of *Ppargfl/fl* controls (a) and *ShhCre;Ppargfl/fl* mutants (c). b, d *Cox1* and *Krt5* expression in a control (b) and in the *ShhCre;Ppargfl/fl* mutant urothelium (d). e, g *Sod1* and *Krt5* expression in a *Ppargfl/fl* control urothelium (e) and in the urothelium of an *ShhCre;Ppargfl/fl* mutant (g). f, h *Sod2* and *Krt5* expression in the urothelium of a *Ppargfl/fl* control (f) and in a *ShhCre;Ppargfl/fl* mutant urothelium (h). i, l *Uchl1* and *Krt5* expression in the urothelium of a wild-type adult tongue (i) and in the urothelium of a *ShhCre;Ppargfl/fl* mutant (l). j, m Expression of *Sprr1a* and *Krt5* in the urothelium of a control (j) and in a urothelium of a *ShhCre;Ppargfl/fl* mutant (m). k, n *Cldn8* and *Krt5* expression in a control urothelium (k) and in a *ShhCre;Ppargfl/fl* mutant (n). o, q) *Krt6* and *Krt5* expression in a control urothelium (o) and in a *ShhCre;Ppargfl/fl* mutant (q). p, r *Uchl1* and *Krt5* expression in a control urothelium (p) and in a *ShhCre;Ppargfl/fl* mutant (r) urothelium. Scale bars: 50 μ m. Adult wild type, n = 6; adult mutant, n = 5 Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31597917>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Validation of gene expression changes from RNA-Seq experiments. a, c Expression of Cpt2 and Krt5 in the urothelium of Ppargfl/fl controls (a) and ShhCre;Ppargfl/fl mutants (c). b, d Cox1 and Krt5 expression in a control (b) and in the ShhCre;Ppargfl/fl mutant urothelium (d). e, g Sod1 and Krt5 expression in a Ppargfl/fl control urothelium (e) and in the urothelium of an ShhCre;Ppargfl/fl mutant (g). f, h Sod2 and Krt5 expression in the urothelium of a Ppargfl/fl control (f) and in a ShhCre;Ppargfl/fl mutant urothelium (h). i, l Uchl1 and Krt5 expression in the urothelium of a wild-type adult tongue (i) and in the urothelium of a ShhCre;Ppargfl/fl mutant (l). j, m Expression of Sprr1a and Krt5 in the urothelium of a control (j) and in a urothelium of a ShhCre;Ppargfl/fl mutant (m). k, n Cldn8 and Krt5 expression in a control urothelium (k) and in a ShhCre;Ppargfl/fl mutant (n). o, q)Krt6 and Krt5 expression in a control urothelium (o) and in a ShhCre;Ppargfl/fl mutant (q). p, r Uchl1 and Krt5 expression in a control urothelium (p) and in a ShhCre;Ppargfl/fl mutant (r) urothelium. Scale bars: 50 μ m. Adult wild type, n = 6; adult mutant, n = 5 Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31597917>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Liu C, Tate T, Batourina E et al. Pparg promotes differentiation and regulates mitochondrial gene expression in bladder epithelial cells Nat Commun 2019-10-09 [PMID: 31597917] (IHC-P, Mouse)

Uram L, Filipowicz A, Misiorek M et al. Biotinylated PAMAM G3 dendrimer conjugated with celecoxib and/or Fmoc-L-Leucine and its cytotoxicity for normal and cancer human cell lines Eur J Pharm Sci 2018-08-15 [PMID: 30118847] (WB, Human)

Asplund A, Gry Bjorklund M, Sundquist C et al. Expression profiling of microdissected cell populations selected from basal cells in normal epidermis and basal cell carcinoma. Br J Dermatol 2008-03-01 [PMID: 18241271]



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NBP1-85500PEP	COX-1 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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