

Product Datasheet

Periostin/OSF-2 Antibody - BSA Free NBP1-82472

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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NBP1-82472

Periostin/OSF-2 Antibody - BSA Free

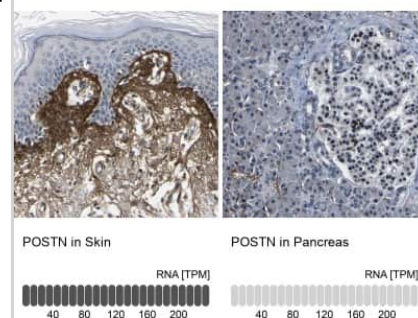
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	10631
Gene Symbol	POSTN
Species	Human, Canine
Reactivity Notes	Use in Canine reported in scientific literature (PMID: 32354887).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: GLFINHYPNGVVTVNCARIIHGNIQIATNGVVHVIDRVLTQIGTSIQDFIEAEDDLS SFRAAAITSDILEALGRDGHFTLFAPTNEAFEKLPKRVLERIMGDKVASEALMKY HILNTLQCSESIMGGAVFETLEG

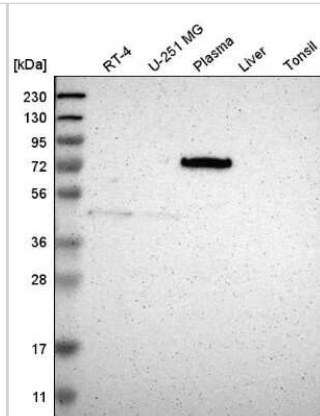
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200, Knockdown Validated
Application Notes	IHC-P, Retrieval method: HIER pH6.

Images

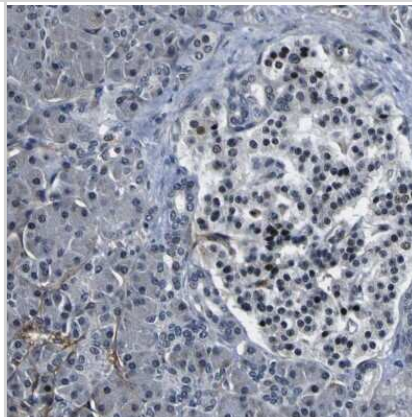
Immunohistochemistry-Paraffin: Periostin/OSF-2 Antibody [NBP1-82472]
- Staining in human skin and pancreas tissues using anti-POSTN antibody. Corresponding POSTN RNA-seq data are presented for the same tissues.



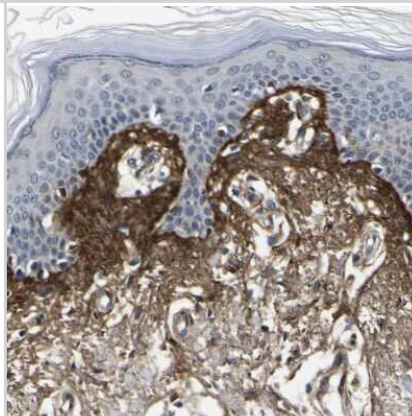
Western Blot: Periostin/OSF-2 Antibody [NBP1-82472] - Analysis in human cell line RT-4, human cell line U-251 MG, human plasma, human liver tissue and human tonsil tissue.



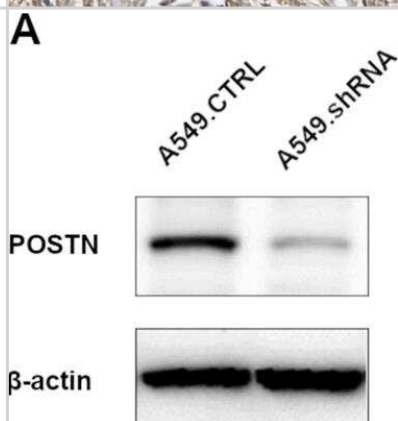
Immunohistochemistry-Paraffin: Periostin/OSF-2 Antibody [NBP1-82472] - Staining of human pancreas shows low expression as expected.



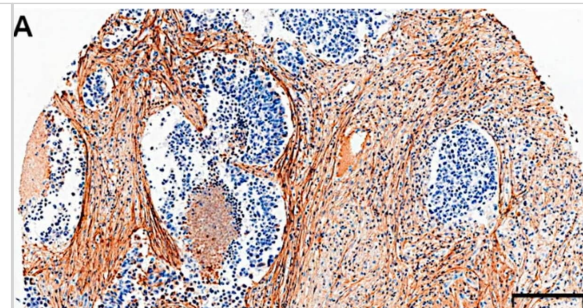
Immunohistochemistry-Paraffin: Periostin/OSF-2 Antibody [NBP1-82472] - Staining of human skin shows high expression.



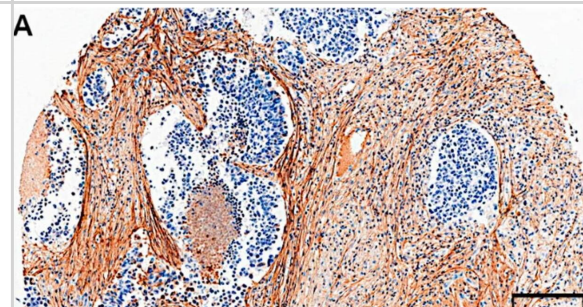
Western Blot: Periostin/OSF-2 Antibody [NBP1-82472] - Characteristics of lung cancer cell lines according to Periostin/OSF-2 (POSTN) expression. Comparison of Periostin/OSF-2 expression levels detected by Western blot. Image collected and cropped by CiteAb from the following publication (<http://www.mdpi.com/1422-0067/23/3/1240>) licensed under a CC-BY license.



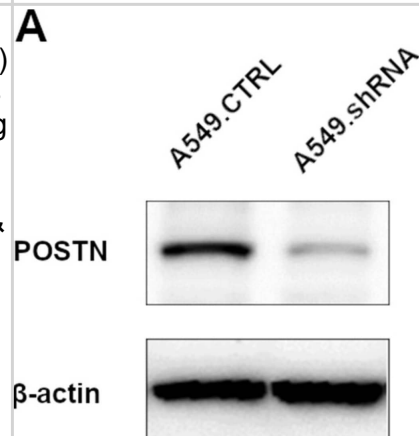
Immunohistochemistry: Periostin/OSF-2 Antibody [NBP1-82472] - Section of non-small cell lung carcinoma (NSCLC) immunostained for Periostin/OSF-2 in cancer-associated fibroblasts (CAFs). Magnification 50×. Bar = 200 μm. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/32987711/](https://pubmed.ncbi.nlm.nih.gov/32987711/)), licensed under a CC-BY license.



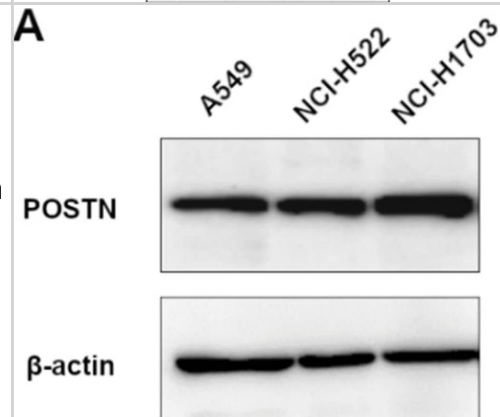
Serial sections of non-small cell lung carcinoma (NSCLC) immunostained for (A) periostin (POSTN), (B) α-smooth muscle actin (α-SMA), (C) podoplanin (D2-40), and (D) vimentin in cancer-associated fibroblasts (CAFs). Magnification 50×. Bar = 200 μm.



Western Blot: Periostin/OSF-2 Antibody [NBP1-82472] - The efficacy of shRNA lentiviral particles transfection. (A) Silencing of periostin (POSTN) expression was confirmed by Western blot analysis. β-actin was used as an internal control. (B) Confocal images & fluorescence analysis showing the expression of POSTN in control A549 CTRL cells & A549.shRNA cells (***) $p < 0.001$. Objective 60×/1.40 Oil; pinhole airy 1.25. Bar = 20 μm. (C) The expression of POSTN mRNA in control cells (A549 CTRL) & the cells representing the loss-of-function phenotype (A549.shRNA). Relative expression (RQ) of the POSTN gene was normalized against the expression of ACTB (***) $p < 0.001$. RQ, relative quantification. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35163164/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: Periostin/OSF-2 Antibody [NBP1-82472] - Characteristics of lung cancer cell lines according to periostin (POSTN) expression. (A) Comparison of POSTN expression levels detected by Western blot & (B) by confocal microscopy (fluorescence intensity) in different lung cancer cell lines (A549, NCI-H522, NCI-H1703), ($p > 0.05$). Objective 60×/1.40 Oil; pinhole airy 1.25. Bar = 20 μm. (C) Immunohistochemical expression level of periostin (POSTN) in the tissue of particular non-small cell lung carcinoma (NSCLC) subtypes: squamous cell carcinoma (SCC) & adenocarcinoma (AC) ($p > 0.05$). IRS, immunoreactive score. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35163164/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Eleonora Brambilla, Rafał Ciaputa, Paola Crepaldi, Stanislaw Dzimira, Marcin Nowak, Piotr Dziegiel, Aleksandra Piotrowska, Veronica Mollica Govoni, Carlos Eduardo Fonseca-Alves, Renée Laufer-Amorim, Damiano Stefanello, Stefano Romussi, Valeria Grieco Canine urothelial carcinoma: expression of Periostin in spontaneous canine urothelial carcinoma and its correlation with histological features *Frontiers in Veterinary Science* 2023-11-16 [PMID: 38076555]

Gao QY, Zhang HF, Tao J et al. Mitochondrial Fission and Mitophagy Reciprocally Orchestrate Cardiac Fibroblasts Activation *Frontiers in Cell and Developmental Biology* 2021-01-21 [PMID: 33585469] (Western Blot)

Ratajczak-Wielgomas K, Kmiecik A, Dziegiel P Role of Periostin Expression in Non-Small Cell Lung Cancer: Periostin Silencing Inhibits the Migration and Invasion of Lung Cancer Cells via Regulation of MMP-2 Expression *International Journal of Molecular Sciences* 2022-01-22 [PMID: 35163164] (IF/IHC, WB)

Ratajczak-Wielgomas, K, Kmiecik, A Et al. Prognostic Significance of Stromal Periostin Expression in Non-Small Cell Lung Cancer. *Int J Mol Sci* 2020-09-24 [PMID: 32987711] (IF/IHC, Mouse)

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Alexandre Calon, Enza Lonardo, Antonio Berenguer-Llargo et al. Stromal gene expression defines poor-prognosis subtypes in colorectal cancer. *Nature Genetics* 2015-02-23 [PMID: 25706628] (IF/IHC, Human)

Gbormittah FO, Haab BB, Partyka K et al. Characterization of glycoproteins in pancreatic cyst fluid using a high-performance multiple lectin affinity chromatography platform. *J Proteome Res* 2014-01-03 [PMID: 24303806] (WB, Human)

Edlund K, Lindskog C, Saito A et al. CD99 is a novel prognostic stromal marker in non-small cell lung cancer. *Int J Cancer* 2012-11-15 [PMID: 22392539]





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Products Related to NBP1-82472

NBP1-82472PEP	Periostin/OSF-2 Recombinant Protein Antigen
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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