

# 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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### Publications: 8

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Updated 12/2/2025 v.20.1

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**NBP1-82472**

Periostin/OSF-2 Antibody - BSA Free

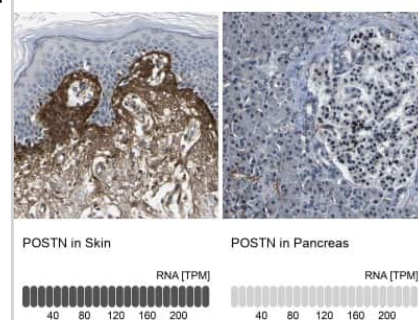
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal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

Product Description	
<b>Description</b>	Novus Biologicals Rabbit Periostin/OSF-2 Antibody - BSA Free (NBP1-82472) is a polyclonal antibody validated for use in IHC and WB. Anti-Periostin/OSF-2 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	10631
<b>Gene Symbol</b>	POSTN
<b>Species</b>	Human, Canine
<b>Reactivity Notes</b>	Use in Canine reported in scientific literature (PMID: 32354887).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: GLFINHYPNGVVTVNCARIIHGNQIATNGVVHVIDRVLVTQIGTSIQDFIEAEDDLS SFRAAAITSDILEALGRDGHFTLFAPTNEAFEKLPKRVGLERIMGDKVASEALMKY HILNLTQCSESIMGGAVFETLEG

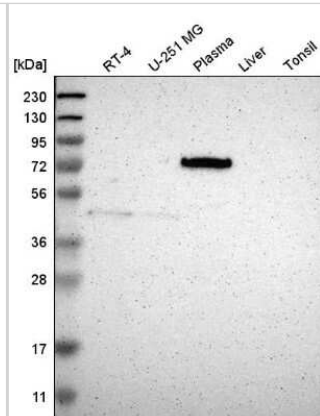
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
<b>Application Notes</b>	IHC-P, Retrieval method: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

**Images**

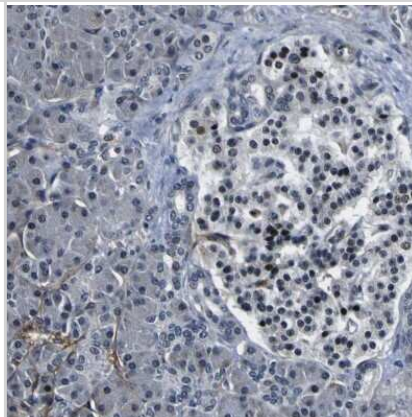
Immunohistochemistry-Paraffin: Periostin/OSF-2 Antibody [NBP1-82472]  
- Staining in human skin and pancreas tissues using anti-POSTN antibody. Corresponding POSTN RNA-seq data are presented for the same tissues.



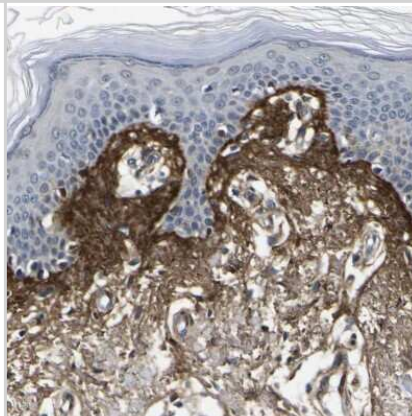
Western Blot: Periostin/OSF-2 Antibody [NBP1-82472] - Analysis in human cell line RT-4, human cell line U-251 MG, human plasma, human liver tissue and human tonsil tissue.



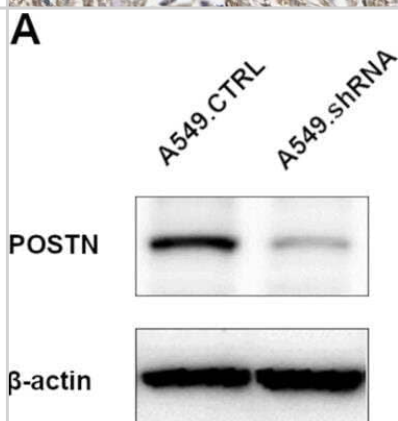
Immunohistochemistry-Paraffin: Periostin/OSF-2 Antibody [NBP1-82472] - Staining of human pancreas shows low expression as expected.



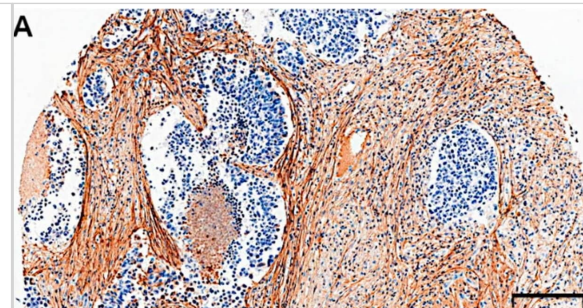
Immunohistochemistry-Paraffin: Periostin/OSF-2 Antibody [NBP1-82472] - Staining of human skin shows high expression.



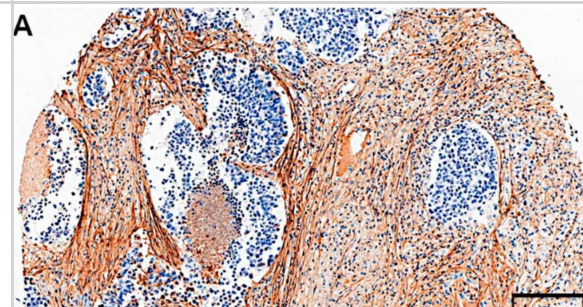
Western Blot: Periostin/OSF-2 Antibody [NBP1-82472] - Characteristics of lung cancer cell lines according to Periostin/OSF-2 (POSTN) expression. Comparison of Periostin/OSF-2 expression levels detected by Western blot. Image collected and cropped by CiteAb from the following publication (<http://www.mdpi.com/1422-0067/23/3/1240>)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



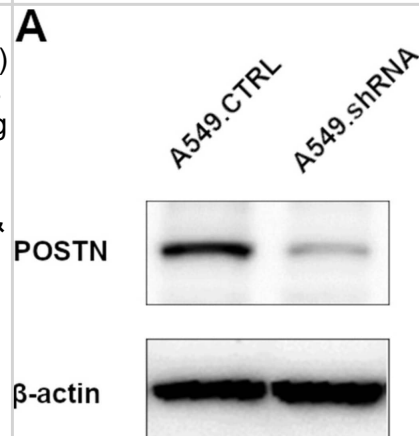
Immunohistochemistry: Periostin/OSF-2 Antibody [NBP1-82472] - Section of non-small cell lung carcinoma (NSCLC) immunostained for Periostin/OSF-2 in cancer-associated fibroblasts (CAFs). Magnification 50×. Bar = 200 μm. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/32987711/](https://pubmed.ncbi.nlm.nih.gov/32987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



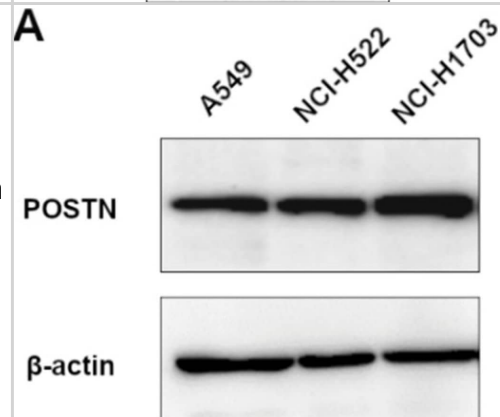
Serial sections of non-small cell lung carcinoma (NSCLC) immunostained for (A) periostin (POSTN), (B) α-smooth muscle actin (α-SMA), (C) podoplanin (D2-40), and (D) vimentin in cancer-associated fibroblasts (CAFs). Magnification 50×. Bar = 200 μm.



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

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]

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]

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)

Borecka P, Ratajczak-Wielgomas K, Ciaputa R et al. Expression of Periostin in Cancer-associated Fibroblasts in Mammary Cancer in Female Dogs *In Vivo* 2020-12-31 [PMID: 32354887] (IHC-P, Canine)

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**

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NBP1-82472PEP	Periostin/OSF-2 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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### **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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