

# Product Datasheet

## Osteopontin/OPN Antibody

### NB100-1883

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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#### Publications: 6

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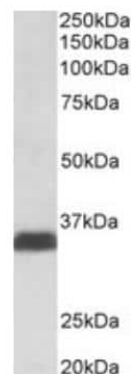
**NB100-1883****Osteopontin/OPN Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Goat Osteopontin/OPN Antibody (NB100-1883) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Osteopontin/OPN Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	6696
<b>Gene Symbol</b>	SPP1
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Use in Rat reported in scientific literature (PMID:35063020). Mouse reactivity reported in scientific literature (PMID:23884286).
<b>Immunogen</b>	Peptide with sequence C-DPKSKEEDKHLK corresponding to C-Terminus according to NP_001035147.1, NP_000573.1, NP_001035149.1.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 0.1-0.3 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen, Peptide ELISA Detection limit 1:32000
<b>Application Notes</b>	Use in Immunohistochemistry-Frozen reported in scientific literature (PMID:35063020) WB: Approx 60kDa band observed in lysates of Human Tonsil and lysates of cell line MOLT4 and Jurkat (calculated MW of 33.8kDa according to NP_000573.1). The observed molecular weight corresponds to earlier findings in literature (Singh et al, J Biol Chem. 1995 Nov 24;270(47):28471-8; PMID: 7499354). Primary incubation was 1 hour. ICC/IF, IHC usage is reported in scientific literature (PMID: 23884286).



## Images

Western Blot: Osteopontin/OPN Antibody [NB100-1883] - Staining of lysates of cell line MOLT4 (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



## Publications

Zhou S, Zang S, Hu Y et al. Transcriptome-scale spatial gene expression in rat arcuate nucleus during puberty Cell & bioscience 2022-01-21 [PMID: 35063020] (IHC-Fr, Rat)

De Micheli AJ, Swanson JB, Disser NP et al. Single-cell Transcriptomic Analyses Identifies Extensive Heterogeneity in the Cellular Composition of Mouse Achilles Tendons Am. J. Physiol., Cell Physiol. 2020-09-02 [PMID: 32877217]

Kolb A, Kleeff J, Guweidhi A et al. Osteopontin Influences the Invasiveness of Pancreatic Cancer Cells and is Increased in Neoplastic and Inflammatory Conditions. Cancer Biol Ther 2005-07-05 [PMID: 15970685]

Schmitt NC, Rubel EW et al. Osteopontin Does Not Mitigate Cisplatin Ototoxicity or Nephrotoxicity in Adult Mice. Otolaryngol Head Neck Surg 2013-07-24 [PMID: 23884286] (IF/IHC, ICC/IF, Mouse)

Alonso, SR et al. A High-Throughput Study in Melanoma Identifies Epithelial-Mesenchymal Transition as a Major Determinant of Metastasis. Cancer Res 67: 3450-3460. 2007-01-01 [PMID: 17409456]

Horak, CE et al. Nm23-H1 Suppresses Tumor Cell Motility by Down-regulating the Lysophosphatidic Acid Receptor EDG2. Cancer Res 67: 7238-7246. 2007-01-01 [PMID: 17671192]



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### **Products Related to NB100-1883**

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NB820-59259	Human Spleen Whole Tissue Lysate (Adult Whole Normal)
NB100-1883PEP	Osteopontin/OPN Peptide
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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