

Product Datasheet

Osteopontin/OPN Antibody

NB100-1883

Unit Size: 0.1 mg

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

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NB100-1883**Osteopontin/OPN Antibody**

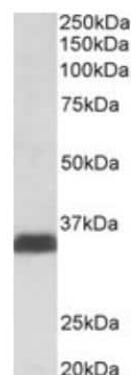
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	6696
Gene Symbol	SPP1
Species	Human, Mouse, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:35063020). Mouse reactivity reported in scientific literature (PMID:23884286).
Immunogen	Peptide with sequence C-DPKSKEEDKHLK corresponding to C-Terminus according to NP_001035147.1, NP_000573.1, NP_001035149.1.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA
Recommended Dilutions	Western Blot 0.1-0.3 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen, Peptide ELISA Detection limit 1:32000
Application Notes	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

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

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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