

Product Datasheet

TEM7/PLXDC1 Antibody (197C193 (IM193)) - BSA Free NB100-56557

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 8

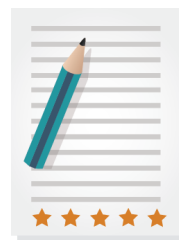
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NB100-56557

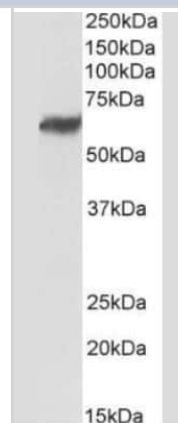
TEM7/PLXDC1 Antibody (197C193 (IM193)) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	197C193 (IM193)
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	57125
Gene Symbol	PLXDC1
Species	Human, Mouse, Rat
Immunogen	Amino acids 409-425 (LQNNLSPKTKGTPVHLG) of human TEM7 were used to develop this monoclonal antibody.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500. Use reported in scientific literature (Meng et al (2007)), Immunoprecipitation 1:10-1:500. Use reported in scientific literature (Nanda et al (2004)), Immunohistochemistry-Paraffin 2-5 ug/ml, Immunohistochemistry-Frozen reported in scientific literature (Lee et al (2006))
Application Notes	Immunohistochemistry-Paraffin reported in scientific literature (Nanda et al (2004); Lee et al (2005))



Images

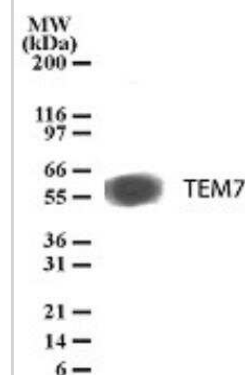
Western Blot: TEM7/PLXDC1 Antibody (197C193 (IM193)) [NB100-56557] - Analysis of human breast cancer lysate (35 ug per lane, RIPA buffer) at 0.03ug/ml. Band observed at ~60kDa. (Expected MW of 55.8kDa according to NP_065138.2).



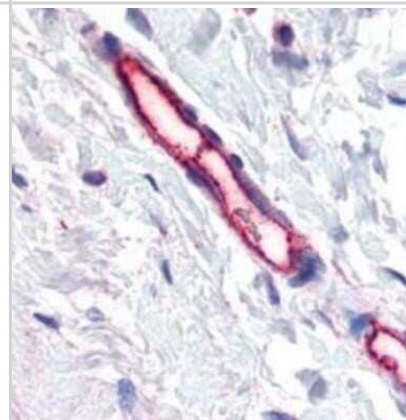
Immunohistochemistry: TEM7/PLXDC1 Antibody (197C193 (IM193)) [NB100-56557] - Staining of Tumor Endothelial Marker 7 in formalin-fixed, paraffin-embedded human Purkinje neurons at 2.5 ug/ml. Hematoxylin-eosin counterstain.



Western Blot: TEM7/PLXDC1 Antibody (197C193 (IM193)) [NB100-56557] - Detection of TEM7 with TEM7 antibody. Human HCT-116 cell lysate probed with TEM7 antibody at 1 ug/ml.



Immunohistochemistry-Paraffin: TEM7/PLXDC1 Antibody (197C193 (IM193)) [NB100-56557] - Formalin-fixed, paraffin-embedded human breast vessel stained with TEM7 antibody at 5 ug/ml.



Publications

Carpenter RL, Paw I, Zhu H et al. The gain-of-function GLI1 transcription factor TGLI1 enhances expression of VEGF-C and TEM7 to promote glioblastoma angiogenesis. *Oncotarget* 2015-09-08 [PMID: 26093087] (IF/IHC)

Fuchs Bruno, Mahlum Eric, Halder Chandralekha et al. High expression of tumor endothelial marker 7 is associated with metastasis and poor survival of patients with osteogenic sarcoma. *Gene*. 2007-09-15 [PMID: 17560052] (Human)

Mehran R, Nilsson M, Khajavi M et al. Tumor endothelial markers define novel subsets of cancer-specific circulating endothelial cells associated with antitumor efficacy. *Cancer Res*. 2014-03-13 [PMID: 24626092] (IHC-Fr, Mouse, Human)

Details:

Mouse xenograft tumor models with human and mouse tumor cells & normal mouse lung, Fig 1.

Yamaji Y, Yoshida S, Ishikawa K et al. TEM7 (PLXDC1) in neovascular endothelial cells of fibrovascular membranes from patients with proliferative diabetic retinopathy. *Invest Ophthalmol Vis Sci*. 2008-07-01 [PMID: 18316703] (IHC-P, Human)

Details:

IHC (paraffin), human fibrovascular membranes, Figs. 3, 4, 5.

Nanda A, Buckhaults P, Seaman S et al. Identification of a binding partner for the endothelial cell surface proteins TEM7 and TEM7R. *Cancer Res*. 2004-12-01 [PMID: 15574754] (WB, Human)

Details:

WB: TEM7 transfected 293 cells (Figs 1C and 3B); human colon cancer and normal colon tissue lysates (Fig 1D), IP: TEM7 transfected 293 cells (Figs 1C and 3B); IHC-paraffin: normal/tumor colon, esophagus and lung tissues (Fig 2A).

Lee HK, Kang DS, Seo IA et al. Expression of tumor endothelial marker 7 mRNA and protein in the dorsal root ganglion neurons of the rat. *Neurosci Lett*. 2006-07-10 [PMID: 16707219] (IHC-Fr)

Lee HK, Bae HR, Park HK et al. Cloning, characterization and neuronal expression profiles of tumor endothelial marker 7 in the rat brain. *Brain Res Mol Brain Res*. 2005-05-20 [PMID: 15893603] (IHC-P)

Meng F, Henson R, Patel T. Chemotherapeutic stress selectively activates NF-kappa B-dependent AKT and VEGF expression in liver cancer-derived endothelial cells. *Am J Physiol Cell Physiol*. 2007-08-01 [PMID: 17537803] (WB, ICC/IF)

Details:

WB (Fig 1A): AML12, normal mouse liver hepatocytes, and Hepa 1-6 mouse liver hepatoma cell lines, and mouse liver endothelial cells IF/ICC (Fig 1B): mouse liver endothelial cell monolayers.





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Products Related to NB100-56557

NBL1-14532	TEM7/PLXDC1 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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