

Product Datasheet

Serpin E1/PAI-1 Antibody (1D5) - BSA Free NBP2-37532

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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NBP2-37532

Serpine E1/PAI-1 Antibody (1D5) - BSA Free

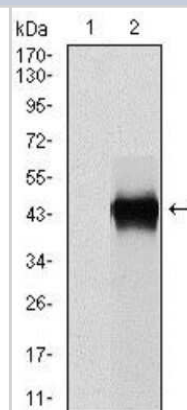
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1D5
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	45 kDa

Product Description	
Description	Novus Biologicals Mouse Serpin E1/PAI-1 Antibody (1D5) - BSA Free (NBP2-37532) is a monoclonal antibody validated for use in IHC, WB, ELISA and Flow. Anti-Serpine E1/PAI-1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5054
Gene Symbol	SERPINE1
Species	Human
Immunogen	Purified recombinant fragment of human Serpin E1/PAI-1 expressed in E. Coli.

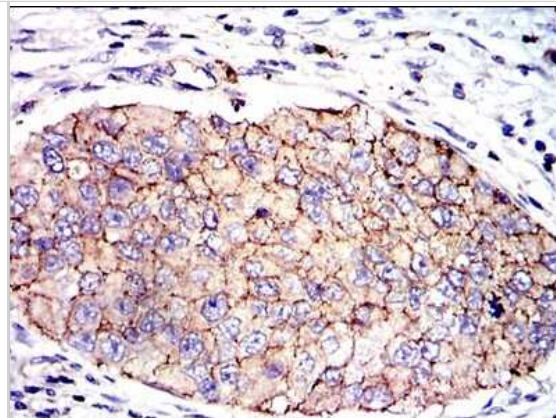
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunohistochemistry, CyTOF-ready
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000, CyTOF-ready
Application Notes	This antibody is Cytof ready.

Images

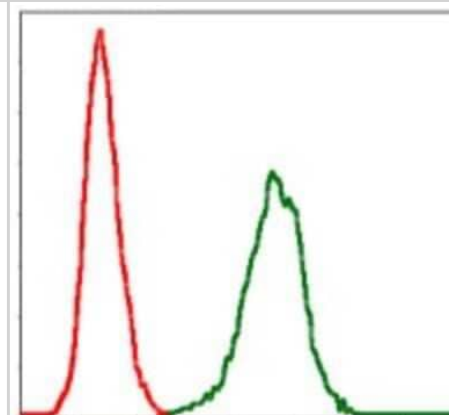
Western Blot: Serpin E1/PAI-1 Antibody (1D5) [NBP2-37532] - Analysis using SERPINE1 mAb against HEK293 (1) and SERPINE1 (AA: 194-316)-hlgGfc transfected HEK293 (2) cell lysate.



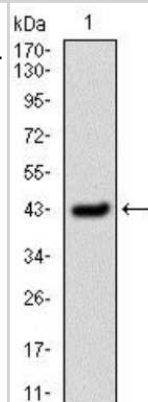
Immunohistochemistry-Paraffin: Serpin E1/PAI-1 Antibody (1D5) [NBP2-37532] - Analysis of kidney cancer tissues using SERPINE1 mouse mAb with DAB staining.



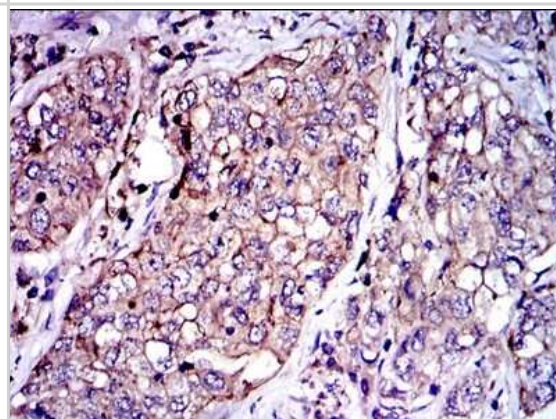
Flow Cytometry: Serpin E1/PAI-1 Antibody (1D5) [NBP2-37532] - Analysis of NIH/3T3 cells using SERPINE1 mouse mAb (green) and negative control (red).



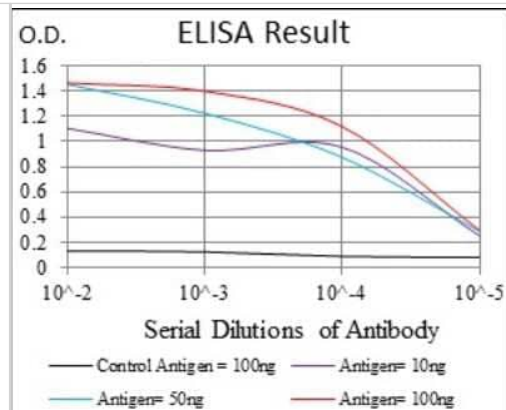
Western Blot: Serpin E1/PAI-1 Antibody (1D5) [NBP2-37532] - Western blot analysis using SERPINE1 mAb against human SERPINE1 (AA: 194-316) recombinant protein. (Expected MW is 45kDa kDa)



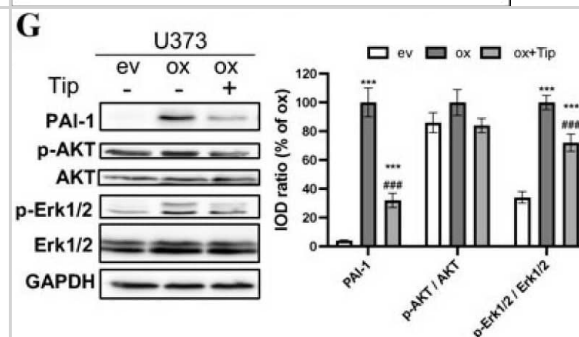
Immunohistochemistry-Paraffin: Serpin E1/PAI-1 Antibody (1D5) [NBP2-37532] - Analysis of lung cancer tissues using SERPINE1 mouse mAb with DAB staining.



ELISA: Serpin E1/PAI-1 Antibody (1D5) [NBP2-37532] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



Upregulation of ALDH1A3 in oxGBM cells is associated with the increased expression and release of pro-angiogenic factors PAI-1 and IL-8. GBM cell lines were transduced with ALDH1A3 for overexpression (oxGBM) or with empty vector (evGBM). (A) Confirmation of up-regulation of ALDH1A3 mRNA level in oxGBM cells by RT2-PCR. (B) Confirmation of up-regulation of ALDH1A3 protein expression by Western blot. wt, wild-type cells. The uncropped blots are shown in Figure S7; (C) Angiogenesis array. The blots showed duplicated dots for 55 angiogenesis-related proteins in the media of oxU373 or evU373. 10 of 55 proteins were upregulated more than 2-fold in ox group compared to ev group (indicated by rectangle). They are: (1) Ang-1, (2) artemin, (3) TF, (4) ET-1, (5) GM-CSF, (6) IL-8, (7) PDGF-AA, (8) PAI-1, (9) PEDF, and (10) uPA. (D) Semi-quantification of the dots representing PAI-1 and IL-8. (E) Immunofluorescence staining of GBM cells. U373 (left panel) and LN229 (right panel). Co-localization of ALDH1A3 with PAI-1 and IL-8 was observed in oxGBM cells, whereas no immunoreactivity of PAI-1 and IL-8 was detected in evGBM cells. (F) mRNA expression of PAI-1 and IL-8 in transduced U373 cells and the effect of inhibitors. Tiplaxtinin (Tip, 30 μ M) and reparixin (Rep, 1 μ M) are the specific inhibitors of PAI-1 and IL-8 receptors CXCR1/2, respectively. (G) Detection of PAI-1 and potential signaling proteins by Western blot. IOD: optical density. The uncropped blots are shown in Figure S8. **, $p < 0.01$; ***, $p < 0.001$, compared with ev. ##, $p < 0.01$; ###, $p < 0.001$, compared with ox. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37686698>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chen Z, Will R, Kim SN et al. Novel Function of Cancer Stem Cell Marker ALDH1A3 in Glioblastoma: Pro-Angiogenesis through Paracrine PAI-1 and IL-8 Cancers (Basel) 2023-09-04 [PMID: 37686698]



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Products Related to NBP2-37532

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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