Product Datasheet

Pescadillo Antibody - BSA Free
NBP2-55211

Unit Size: 100 ul

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

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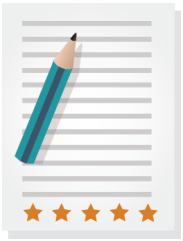
Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-55211

Updated 9/9/2025 v.20.1



NBP2-55211

Pescadillo Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

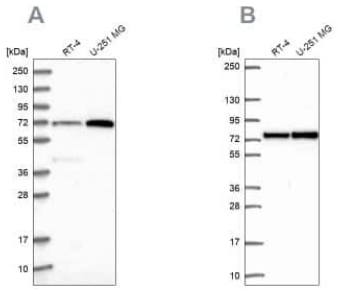
Description	Novus Biologicals Rabbit Pescadillo Antibody - BSA Free (NBP2-55211) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-Pescadillo Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23481
Gene Symbol	PES1
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to the following amino acid sequence: RMEGKKPRVMAGTLKLEDKQRLAQEEEESEAKRLAIMMMKKREKYLYQKIMFG KRRKIREANKLAEKRKAHDE

Product Application Details

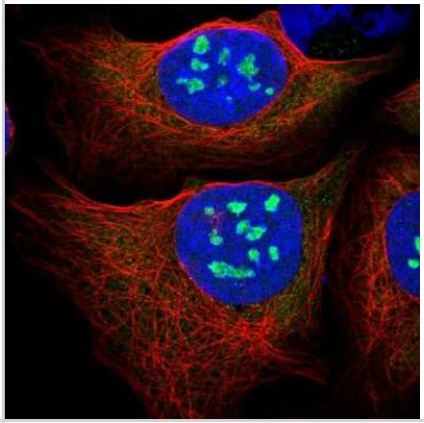
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

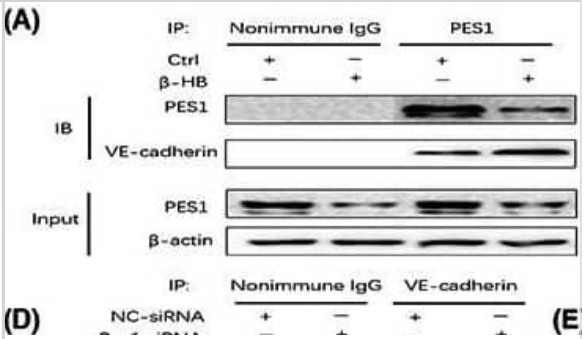
Western Blot: Pescadillo Antibody [NBP2-55211] - Analysis using Anti-PES1 antibody NBP2-55211 (A) shows similar pattern to independent antibody NBP2-34146 (B).



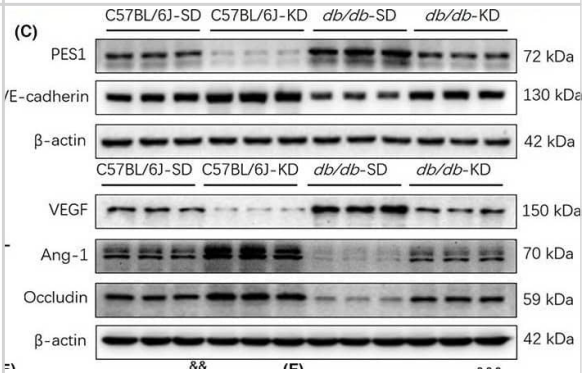
Immunocytochemistry/Immunofluorescence: Pescadillo Antibody [NBP2-55211] - Staining of human cell line U-2 OS shows localization to nucleoli. Antibody staining is shown in green.



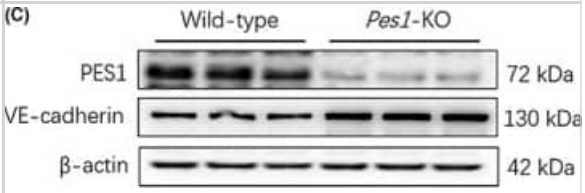
β□HB treatments decreased PES1□facilitated VE□cadherin ubiquitination in MVECs. (A–C) β□HB increased the interaction between PES1 and VE□cadherin. (D–G) Knockdown of Pes1 in cultured cells extenuated the ubiquitination of VE□cadherin. (H–K) Overexpression of Pes1 in cultured cells promoted the ubiquitination of VE□cadherin, which was curbed by β□HB treatment. Each experiment was performed independently three times. ***p < 0.001 compared with control (anova, Student–Newman–Keuls q□test). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37060584), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



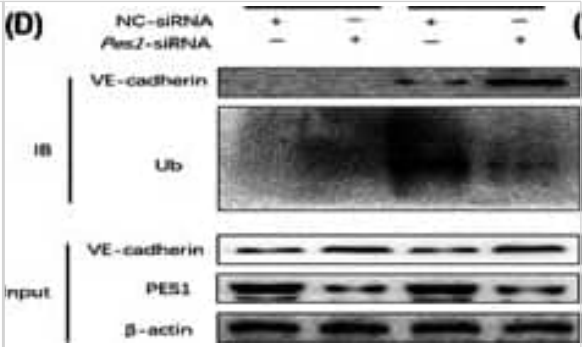
KD improved vascular hyperpermeability and reduced vascular stiffness and leakage in type 2 diabetic mice. (A, B) The Evans blue injection and haematoxylin and eosin staining of abdominal aorta were performed for different groups, original magnification, ×10 (haematoxylin and eosin staining). Scale bar, 50 μm (haematoxylin and eosin staining). (C–H) The protein levels of vascular PES1, VEGF, VE□cadherin, Ang□1 and Occludin were detected by Immunoblotting. Data are represented as mean +/- SEM, each assay was performed independently three times (n = 12 per group). KD (ketogenic diet), SD (standard diet). **p < 0.01 C57BL/6J□KD versus C57BL/6J□SD, ***p < 0.001 C57BL/6J□KD versus C57BL/6J□SD, #p < 0.05 db/db□KD versus db/db□SD, ##p < 0.01 db/db□KD versus db/db□SD, ###p < 0.001 db/db□KD versus db/db□SD, +p < 0.05 C57BL/J□SD versus db/db□SD, ++p < 0.01 C57BL/J□SD versus db/db□SD, +++p < 0.001 C57BL/J□SD versus db/db□SD, &&p < 0.01 C57BL/6J□KD versus db/db□KD, &&&p < 0.001 C57BL/6J□KD versus db/db□KD (anova, Student–Newman–Keuls q□test). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37060584), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



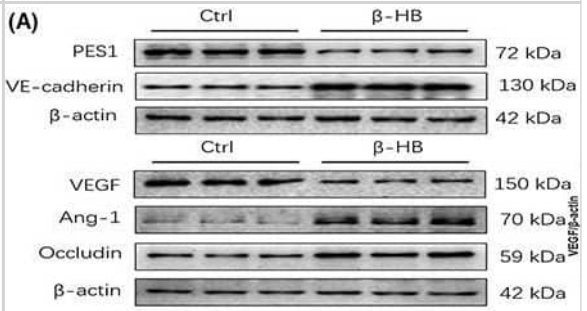
Pes1 knockout in mice decreased vascular permeability. (A, B) The Evans blue injection and haematoxylin and eosin staining of abdominal aorta were conducted in different groups, original magnification, ×10 (haematoxylin and eosin staining). Scale bar, 50 μm (haematoxylin and eosin staining). (C–F) The protein levels of vascular PES1, VEGF, VE□cadherin, Ang□1 and Occludin were measured by Immunoblotting. Data were represented as mean +/- SEM, each assay was performed independently three times. **p < 0.01, ***p < 0.001 compared with control (Student's t□test). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37060584), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



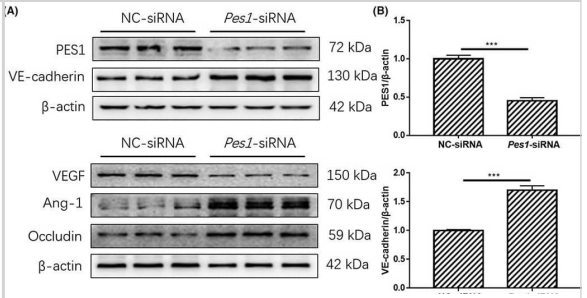
β□HB treatments decreased PES1□facilitated VE□cadherin ubiquitination in MVECs. (A–C) β□HB increased the interaction between PES1 and VE□cadherin. (D–G) Knockdown of Pes1 in cultured cells extenuated the ubiquitination of VE□cadherin. (H–K) Overexpression of Pes1 in cultured cells promoted the ubiquitination of VE□cadherin, which was curbed by β□HB treatment. Each experiment was performed independently three times. ***p < 0.001 compared with control (anova, Student–Newman–Keuls q□test). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37060584), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



β□HB treatment reduced vascular endothelial paracellular permeability in vitro. (A, B) The protein levels of PES1, VEGF, VE□cadherin, Ang□1 and Occludin in MVECs were detected by immunoblotting after 2 mM β□HB treatment for 24 h. (C–H) Displayed are immunofluorescence images of β□HB□treated MVECs for VE□cadherin, VEGF and PES1 expression and localizations, scale bar represents 20 μm. The nuclei were stained with DAPI. (I) Exhibited is the paracellular permeability in the cultured MVECs under different treatments. Ctrl (Control), β□HB (β□hydroxybutyric acid). Data were represented as mean +/- SEM, each experiment was performed independently three times. **p < 0.01, ***p < 0.001 compared with control (Student's t□test). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37060584), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



In vitro knockdown of Pes1 lowered the paracellular permeability of MVECs. (A, B) The protein levels of PES1, VEGF, VE□cadherin, Ang□1 and Occludin in MVECs were detected by immunoblotting after Pes1□siRNA treatment. (C, D) Shown are immunofluorescence images of Pes1□siRNA□treated MVECs for Occludin and VE□cadherin expression and localizations, scale bar represents 20 μm. The nuclei were stained with DAPI. (E) Exhibited is the paracellular permeability in the cultured MVECs in different groups. Data were represented as mean +/- SEM, each experiment was performed independently three times. **p < 0.01, ***p < 0.001 compared with control (Student's t□test). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37060584), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang S, Zhou J, Lu J et al. A ketogenic diet improves vascular hyperpermeability in type 2 diabetic mice by downregulating vascular pescadillo1 expression Journal of cellular and molecular medicine 2023-04-15 [PMID: 37060584] (WB, Mouse)

Details:
1:500 WB dilution

Zhou J, Lu Y, Lin Y et al. Overexpression of hepatic pescadillo 1 in obesity induces lipid dysregulation by inhibiting autophagy Translational research : the journal of laboratory and clinical medicine 2023-02-10 [PMID: 36775058] (WB)

Zhou J, Lu Y, Jia Y Et al. Ketogenic Diet Ameliorates Lipid Dysregulation in Type 2 Diabetic Mice by Downregulating Hepatic Pescadillo 1 Mol Med 2022-01-04 [PMID: 34979900]

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Products Related to NBP2-55211

NBP2-55211PEP	Pescadillo 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

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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