

Product Datasheet

PHLDA1 Antibody - BSA Free NBP1-84969

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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NBP1-84969

PHLDA1 Antibody - BSA Free

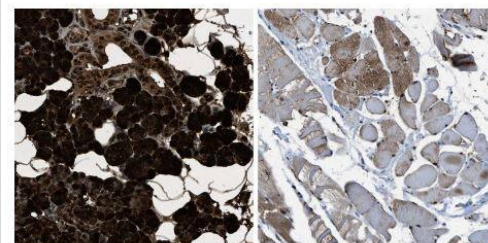
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit PHLDA1 Antibody - BSA Free (NBP1-84969) is a polyclonal antibody validated for use in IHC and WB. Anti-PHLDA1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	22822
Gene Symbol	PHLDA1
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:31906015).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: RMLESSGCKALKEGVLEKRS DGLLQLWKKKCCILTEEGLLLIPPKQLQHQQQQ QQQQQQQQQQPGQGPAEPSQPSGPAVASLEPPVKLKEHFNSNMKTVDCVE

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/31906015/) licensed under a CC-BY license., Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

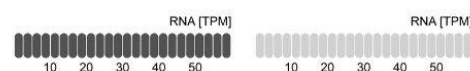
Images

Immunohistochemistry-Paraffin: PHLDA1 Antibody [NBP1-84969] - Analysis in human salivary gland and skeletal muscle tissues using NBP1-84969 antibody. Corresponding PHLDA1 RNA-seq data are presented for the same tissues.

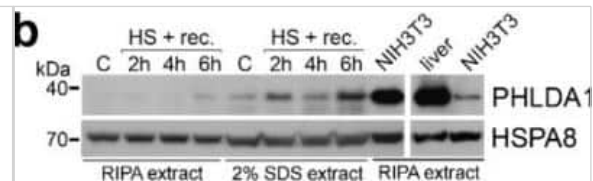


PHLDA1 in Salivary gland

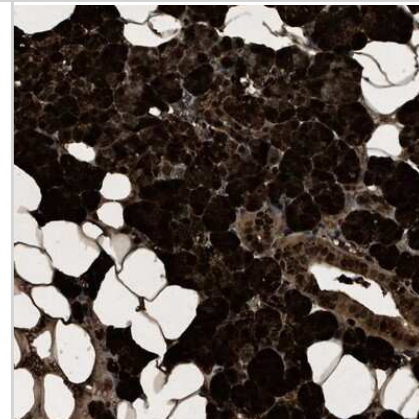
PHLDA1 in Skeletal muscle



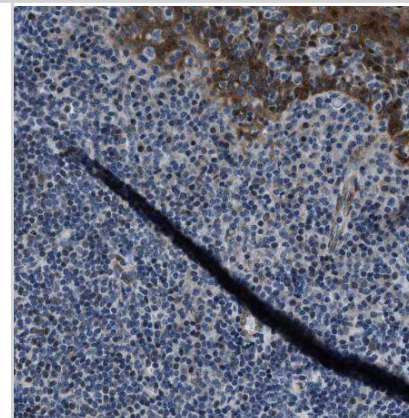
Western Blot: PHLDA1 Antibody [NBP1-84969] - PHLDA1 protein level analyzed by western blot in testes of mice subjected to heat shock and indicated recovery time. HSPA8 was used as loading control; proteins were extracted with either RIPA or 2% SDS buffer. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31906015/>) licensed under a CC-BY license.



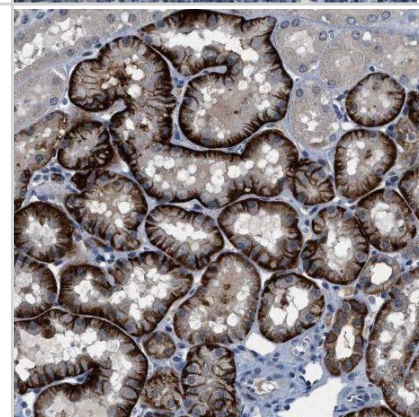
Immunohistochemistry-Paraffin: PHLDA1 Antibody [NBP1-84969] - Staining of human salivary gland shows strong positivity in glandular cells.



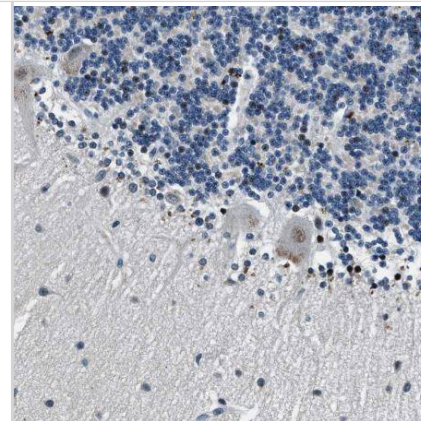
Immunohistochemistry-Paraffin: PHLDA1 Antibody [NBP1-84969] - Staining of human tonsil shows moderate cytoplasmic positivity in squamous epithelial cells



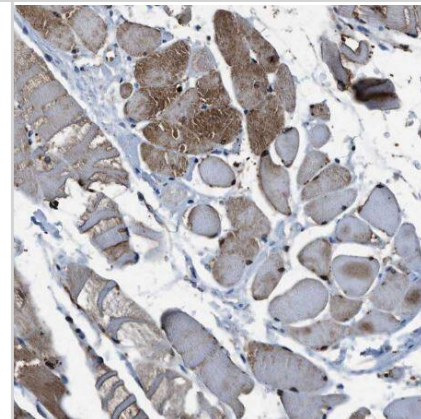
Immunohistochemistry-Paraffin: PHLDA1 Antibody [NBP1-84969] - Staining of human kidney shows strong cytoplasmic positivity in cells in proximal tubules.



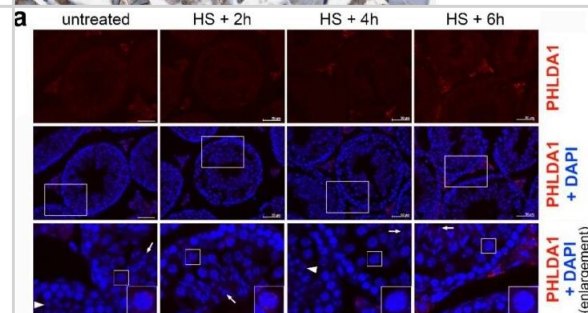
Immunohistochemistry-Paraffin: PHLDA1 Antibody [NBP1-84969] - Staining of human cerebellum shows weak cytoplasmic positivity in Purkinje cells as expected.



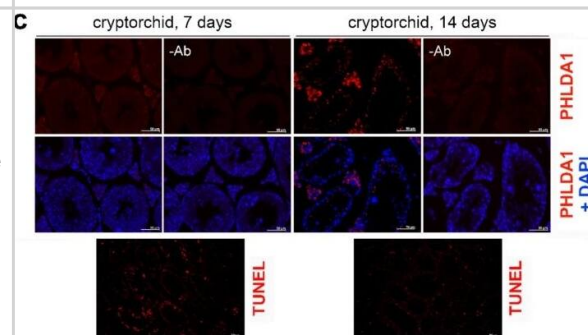
Immunohistochemistry-Paraffin: PHLDA1 Antibody [NBP1-84969] - Staining of human skeletal muscle shows moderate cytoplasmic positivity in myocytes.



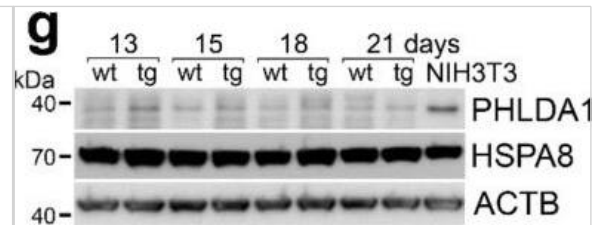
Immunohistochemistry: PHLDA1 Antibody [NBP1-84969] - Localization of PHLDA1 in mouse testes. Detection of PHLDA1 by immunofluorescence (using Ab2, red; DNA stained with DAPI, blue) in testes of a control mouse and subjected to heat shock after 2, 4, and 6 h of recovery. Enlargement of the marked areas is shown in the bottom panel; round spermatids and condensing spermatids are marked with arrowhead and arrows, respectively. Representative pachytene spermatocytes (in squares) are further enlarged in the lower corners. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/31906015/](https://pubmed.ncbi.nlm.nih.gov/31906015/)), licensed under a CC-BY license.



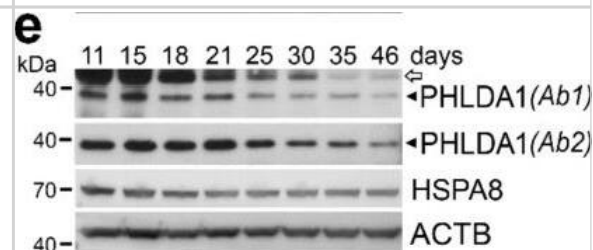
Immunocytochemistry/ Immunofluorescence: PHLDA1 Antibody [NBP1-84969] - Localization of PHLDA1 in mouse testes. (a) Detection of PHLDA1 by immunofluorescence (using Ab2, red; DNA stained with DAPI, blue) in testes of a control mouse & subjected to heat shock after 2, 4, & 6 h of recovery. Enlargement of the marked areas is shown in the bottom panel; round spermatids & condensing spermatids are marked with arrowhead & arrows, respectively. Representative pachytene spermatocytes (in squares) are further enlarged in the lower corners. (b) Detection of apoptotic DNA breaks (by TUNEL assay, red; DNA stained with DAPI, blue) in seminiferous tubules of untreated mice & after heat shock in vivo & indicated recovery time (2–6 h). (c) Detection of PHLDA1 by immunofluorescence (red; DNA stained with DAPI, blue) in cryptorchid testes 7 & 14 days after surgery (upper panel) & detection of apoptotic DNA breaks (by TUNEL assay, red) in corresponding tissues (bottom panel). Scale bar—50 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31906015/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: PHLDA1 Antibody [NBP1-84969] - Expression of pleckstrin-homology-like domain family A, member 1 (PHLDA1) in mouse testes. (a) Transcripts of *Phlda1* & reference genes analyzed by RT-PCR in adult testes after heat shock performed in vivo & indicated recovery time. C—control, physiological temperature; HS—heat shock. (b) PHLDA1 protein level analyzed by western blot in testes of mice subjected to heat shock & indicated recovery time. HSPA8 was used as loading control; proteins were extracted with either RIPA or 2% SDS buffer. (c) Time-line of the appearance of different spermatogenic cells during the mouse postnatal development. (d) Transcripts of *Phlda1* & reference genes analyzed by RT-PCR in testes of 11–46-day-old animals. (e) PHLDA1 protein level analyzed by western blot in testes of 11–46-day-old animals. ACTB was used as loading control; two anti-PHLDA1 antibodies (Ab1 & Ab2) were used; heavy chain IgG detected by the secondary anti-mouse antibody is marked with an arrow. (f) Transcripts of *Phlda1* & reference genes analyzed by RT-PCR in testes of wild-type (wt) & aHSF1 transgenic (tg) mice at 13th, 15th, 18th, & 21st day of postnatal development (upper panel); fold change in *Phlda1* expression quantified by RT-qPCR in testes of tg mice compared to wt mice of the same age (bottom panel; marked are minimum & maximum values). Asterisk indicates the statistical significance of differences (* $p < 0.05$). (g) PHLDA1 protein level analyzed by western blot in testes of wild-type (wt) & aHSF1 transgenic (tg) mice. ACTB & HSPA8 were used as loading controls. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31906015>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Janus P, Mrowiec K et al. PHLDA1 Does Not Contribute Directly to Heat Shock-Induced Apoptosis of Spermatocytes. Int J Mol Sci 2019-12-30 [PMID: 31906015] (WB, IF/IHC, Mouse)





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Products Related to NBP1-84969

NBP1-84969PEP	PHLDA1 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

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