

# Product Datasheet

## HISPPD2A Antibody - BSA Free NBP1-89693

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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### Publications: 1

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**NBP1-89693**

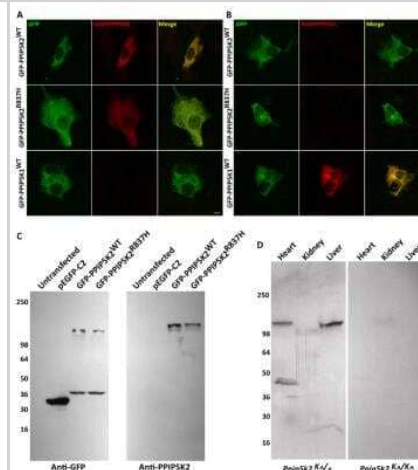
HISPPD2A Antibody - BSA Free

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	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Description	Novus Biologicals Rabbit HISPPD2A Antibody - BSA Free (NBP1-89693) is a polyclonal antibody validated for use in IHC and ICC/IF. Anti-HISPPD2A Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9677
Gene Symbol	PIIP5K1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29590114).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: CLENSEEVVSQPCQGVSVGVGKLVHKFHVGVGSLVQETLVEVGSPAEEIPEEVI QPYQEFSVEVGRLAQETSAINLLSQGIPEIDKPS
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. Immunocytochemistry/Immunofluorescence Fixation Permeabilization: Use PFA/Triton X-100.

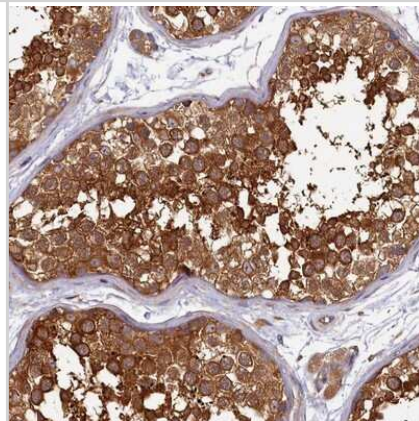


## Images

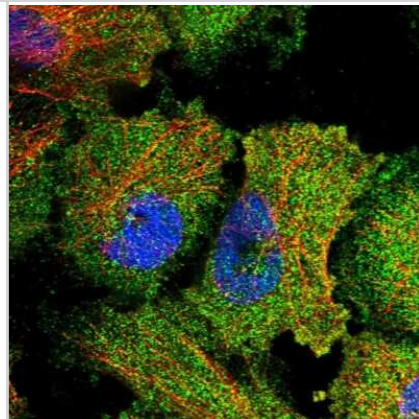
**Immunocytochemistry/Immunofluorescence: HISPPD2A Antibody [NBP1-89693]** - Validation of anti-PPIP5K2 and anti-PPIP5K1 antibodies specific in vitro. (A) Anti-PPIP5K2 antibody immunofluorescence signal coincides with the signal produced by GFP-tagged WT PPIP5K2, and p.Arg837His variant harboring PPIP5K2 expressed in COS7 cells. (B) The anti-PPIP5K1 antibody immunofluorescence signal coincides with the GFP-tagged PPIP5K1 signal, but not with fluorescently tagged PPIP5K2 expressed in COS7 cells. (C) Western blot tested indicated the specific bands of sizes that correspond to full-length PPIP5K2 around 140 kDa. (D) Western blot on whole protein lysates from mice tissues with specific variants. Citation: Yousaf R, Gu C, Ahmed ZM, Khan SN, Friedman TB, Riazuddin S, et al. (2018) Mutations in Diphosphoinositol-Pentakisphosphate Kinase PPIP5K2 are associated with hearing loss in human and mouse. PLoS Genet 14(3): e1007297



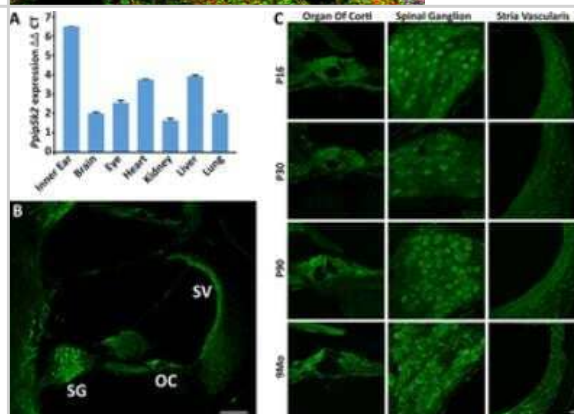
**Immunohistochemistry-Paraffin: HISPPD2A Antibody [NBP1-89693]** - Staining of human testis shows strong cytoplasmic positivity in cells in seminiferous ducts.



**Immunocytochemistry/Immunofluorescence: HISPPD2A Antibody [NBP1-89693]** - Immunofluorescent staining of human cell line U-251 MG shows localization to cytosol.



**Immunocytochemistry/Immunofluorescence: HISPPD2A Antibody [NBP1-89693]** - HISPPD2A/PPIP5K1 antibody was used at 1:200 dilution for localizing PPIP5K2 protein in sensory and non-sensory cells of mouse inner ear using confocal microscopy analysis. Figure A shows the real-time PCR expression of *Ppip5k2* in adult (P150) mice, normalized against *Gapdh* (Delta CT) and *Ppip5k1* expression (Delta CT). In Figure B, a cross-section through one of the coils of inner ear shows diffuse cytoplasmic immunolabeling of PPIP5K2 throughout the cochlear duct, including spiral ganglion neurons (SG), organ of Corti (OC), and stria vascularis (SV). Figure C shows the expression of PPIP5K2 at the ages tested in WT mice, from early postnatal day P16, up to 9 months of age. Scale bars: 100um (panel A), and 20um (panel C).



## Publications

YouSaf R, Gu C, Ahmed ZM et al. Mutations in Diphosphoinositol-Pentakisphosphate Kinase PPIP5K2 are associated with hearing loss in human and mouse. PLoS Genet. 2018-03-01 [PMID: 29590114] (ICC/IF, Mouse)

### Details:

The Novus HISPPD2A antibody was used in a study looking at PPIP5K1 expression in different tissues in mice. It was found that PPIP5K1 expression was much lower in cochlear tissues





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### **Products Related to NBP1-89693**

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NBP1-89693PEP	HISPPD2A Recombinant Protein Antigen
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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### **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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