

# Product Datasheet

## POGZ Antibody - BSA Free NBP1-83004

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: 2

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**NBP1-83004**

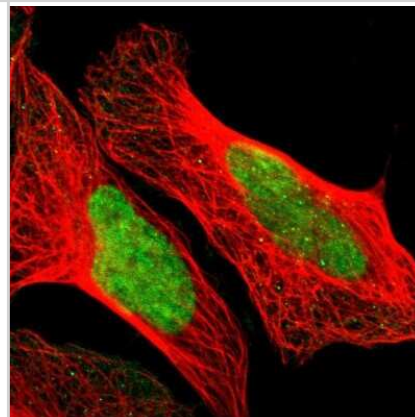
POGZ Antibody - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	23126
<b>Gene Symbol</b>	POGZ
<b>Species</b>	Human
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (87%), Rat (87%)
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: PEELLTPLAPALPSPASTATPPPTPTHPQALALPPLATEGAECLNVDDQDEGSP VTQEPELASGGGGSGGVGKKEQLSVKLRVVLFCNTEQAAEHFRNPQRR IRRWLRRFQASQGENLEGKYLSEAEKLAEWV
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation-exo-Seq
<b>Recommended Dilutions</b>	Western Blot Reported in scientific literature (PMID: 31196716)., Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200, Chromatin Immunoprecipitation-exo-Seq 1-10ug per reaction
<b>Application Notes</b>	IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

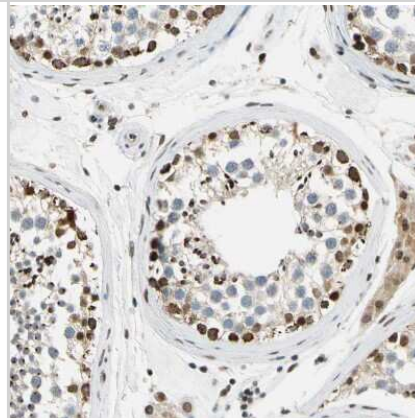


## Images

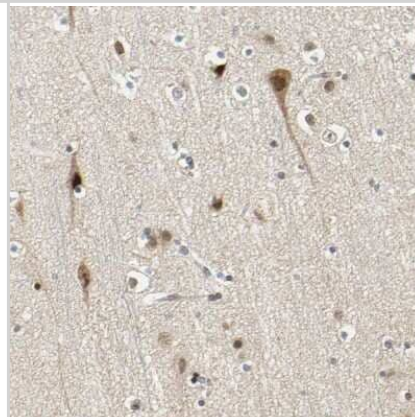
Immunocytochemistry/Immunofluorescence: POGZ Antibody [NBP1-83004] - Immunofluorescent staining of human cell line U-2 OS shows localization to nucleus. Antibody staining is shown in green.



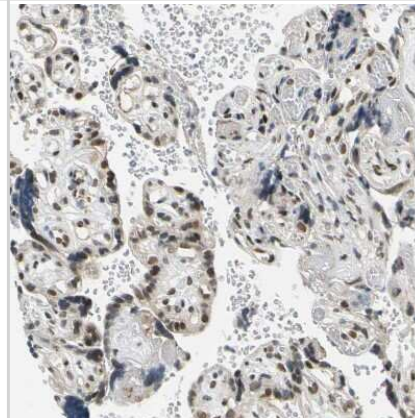
Immunohistochemistry-Paraffin: POGZ Antibody [NBP1-83004] - Staining of human testis shows strong nuclear and cytoplasmic positivity in cells in seminiferous ducts.



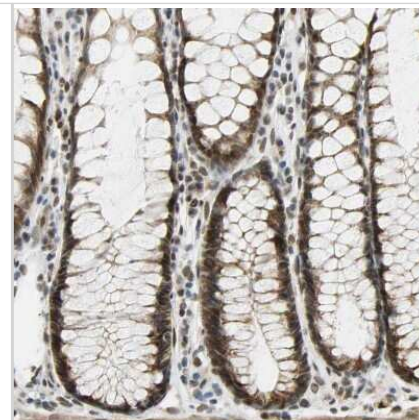
Immunohistochemistry-Paraffin: POGZ Antibody [NBP1-83004] - Staining of human cerebral cortex shows moderate to strong nuclear positivity in neurons.



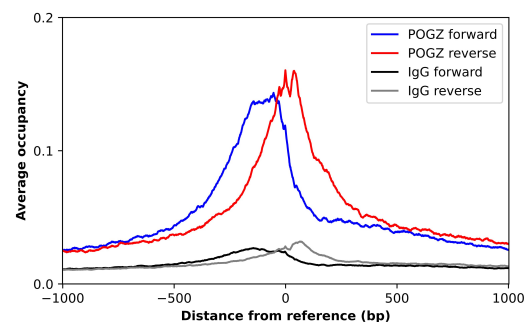
Immunohistochemistry-Paraffin: POGZ Antibody [NBP1-83004] - Staining of human placenta shows moderate to strong nuclear positivity in trophoblastic cells.



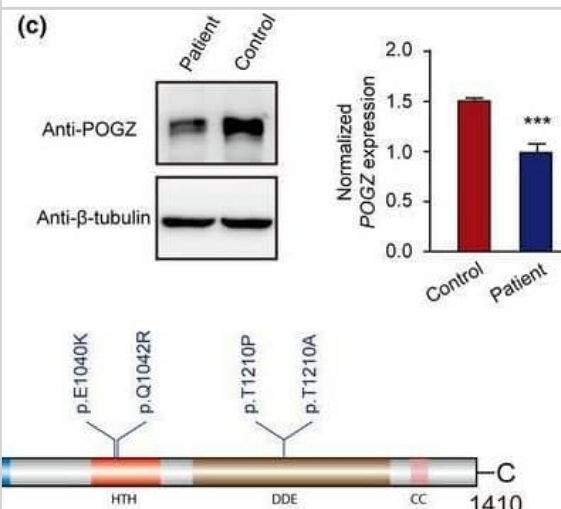
Immunohistochemistry-Paraffin: POGZ Antibody [NBP1-83004] - Staining of human rectum shows moderate to strong nuclear positivity in glandular cells.



ChIP-Exo-Seq composite graph for Anti-POGZ (NBP1-83004) tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



POGZ (GenBank accession number: NM\_015100.4) de novo missense variants in neuropsychiatric disorders. (a) Frontal and lateral face photos of the proband reported in this study. (b) Sanger sequencing validated the missense variant is de novo. (c) Immunoblot analysis of POGZ expression in peripheral blood lymphocytes of patient and control. Three independent experiments were performed. Data are means  $\pm$  SEM. Differences were statistically significant by Student's  $t$ -test ( $***p < .001$ ). (d) Location distribution of all reported POGZ de novo missense variants. The novel de novo missense variant identified in this study is marked with red color. (e) Conservation analysis of all reported POGZ de novo missense. The new pathogenic de novo missense variant identified in our study is denoted in red color. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31347273>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Zhao W, Quan Y, Wu H et al. POGZ de novo missense variants in neuropsychiatric disorders *Mol Genet Genomic Med* 2019-07-25 [PMID: 31347273] (WB, Human)

Vihola A, Palmio J, Danielsson O et al. Rare inherited missense variants of POGZ associate with autism risk and disrupt neuronal development *Journal of Genetics and Genomics* 2019-05-01 [PMID: 31196716] (WB, Human)



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### **Products Related to NBP1-83004**

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NBP1-83004PEP	POGZ 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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