

# Product Datasheet

## Gankyrin Antibody - BSA Free

### NBP1-82443

Unit Size: 0.1 ml

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

[www.novusbio.com](http://www.novusbio.com)



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#### Publications: 1

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**NBP1-82443**

Gankyrin 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

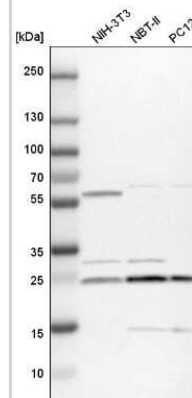
Product Description	
Description	Novus Biologicals Rabbit Gankyrin Antibody - BSA Free (NBP1-82443) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Gankyrin Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5716
Gene Symbol	PSMD10
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: EGCVSNLMVCNLAYSGKLEELKESILADKSLATRTDQDSRTALHWACSAGHTEI VEFLLQLGVPVNDKDDAGWSPLHIAASAGRDEIVKALLGKGAQVNAVNQNGCT PL

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500-1:1000, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

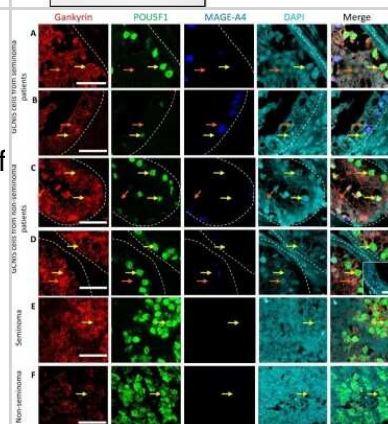


## Images

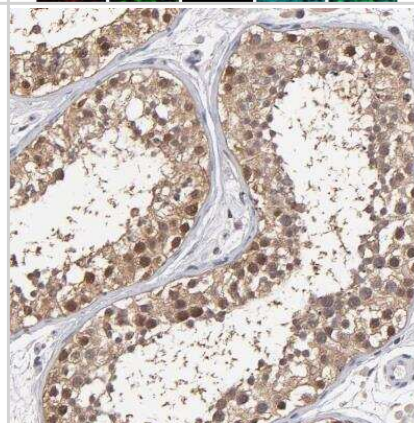
Western Blot: Gankyrin Antibody [NBP1-82443] - Western blot analysis in mouse cell line NIH-3T3, rat cell line NBT-II and rat cell line pC12.



Immunocytochemistry/Immunofluorescence: Gankyrin Antibody [NBP1-82443] - Gankyrin expression in invasive TGCC. a-d Gankyrin (red), POU5F1 (green; GCNIS cells), and MAGE-A4 (blue; spermatogonia) expression in GCNIS containing tubules from patients with invasive TGCC, yellow arrows - GCNIS cells, orange arrows - Sertoli cells. e and f Gankyrin (red), POU5F1 (green; seminoma cells), and MAGE-A4 (blue) expression in seminoma cells (e) and a mixed TGCC (e), inset on D - no primary antibody control. Scalebars - 50 um. Image collected and cropped by CiteAb from the following publication (<https://bmccancer.biomedcentral.com/articles/10.1186/s12885-019-6340-7>), licensed under a CC-BY license.



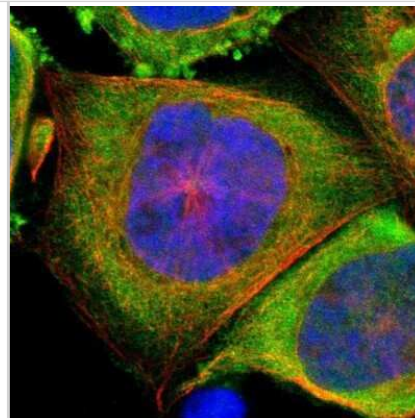
Immunohistochemistry-Paraffin: Gankyrin Antibody [NBP1-82443] - Staining of human testis shows moderate cytoplasmic and nuclear positivity in cells of seminiferous ducts.



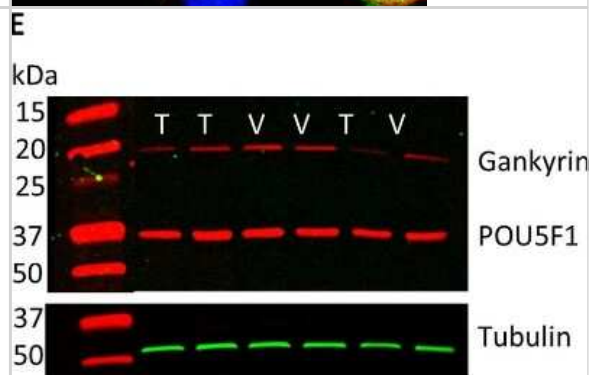
Western Blot: Gankyrin Antibody [NBP1-82443] - Analysis in MCF-7 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-PSMD10 antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



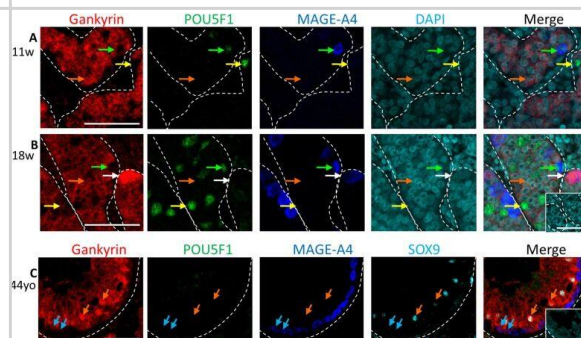
Immunocytochemistry/Immunofluorescence: Gankyrin Antibody [NBP1-82443] - Staining of human cell line A-431 shows positivity in cytoplasm.



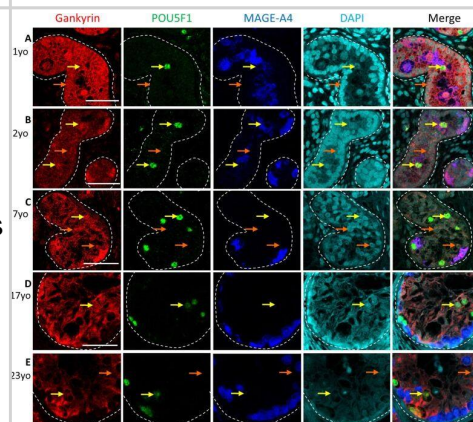
Western Blot: Gankyrin Antibody [NBP1-82443] - Effects of Gankyrin knock-down on Gankyrin and POU5F1 expression. Representative Western blot for Gankyrin and POU5F1 expression in (V) vehicle and Gankyrin siRNA (T) transfected Ntera2 cells. Tubulin was used as a loading control. Data analysed by paired t-test +/- SEM, \*\*\* $p < 0.001$ , \*\* $p < 0.01$ . Each data point represents the mean of an individual experiment, each with 3 replicates. Paired samples from an individual experiment are represented by the same colour. Image collected and cropped by CiteAb from the following publication (<https://bmccancer.biomedcentral.com/articles/10.1186/s12885-019-6340-7>), licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: Gankyrin Antibody [NBP1-82443] - Representative images for Gankyrin expression in human fetal testis & normal adult testis. Gankyrin (red), POU5F1 (green; gonocyte) & MAGE-A4 (blue; prespermatogonia) expression in A), 11 week & B) 18 week old human fetal testis, counterstained with DAPI, yellow arrows – gonocytes, white arrows – pre-spermatogonia, green arrows – differentiating gonocyte, orange arrows – Sertoli cells, Scalebars – 50  $\mu$ m. C) Representative image of Gankyrin expression in normal human adult testis immunostained for SOX9 (cyan; Sertoli cells), POU5F1 (green), MAGE-A4 (blue; spermatogonia) & Gankyrin (red), Cyan arrow – spermatogonia. Scalebars – 50  $\mu$ m, insets – no primary antibody controls. w-weeks. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31744479>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

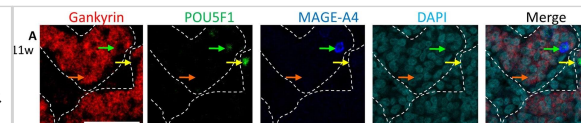


Immunocytochemistry/ Immunofluorescence: Gankyrin Antibody [NBP1-82443] - Gankyrin expression pre-invasive germ cells. a) 1 year old - maturation delay; b) 2 year old – maturation delay; c) 7 year old pre-invasive TGCC; d) 17 year old pre-invasive TGCC; & e) 23 year old pre-invasive TGCC. Yellow arrows – GCNIS cells, orange arrows – Sertoli cells. This experiment was performed along with human fetal testis samples, no primary antibody control is the same as on Fig. 1, Scalebars – 50  $\mu$ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31744479>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

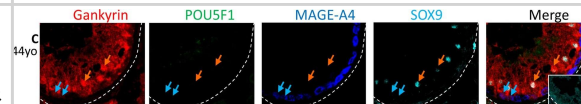




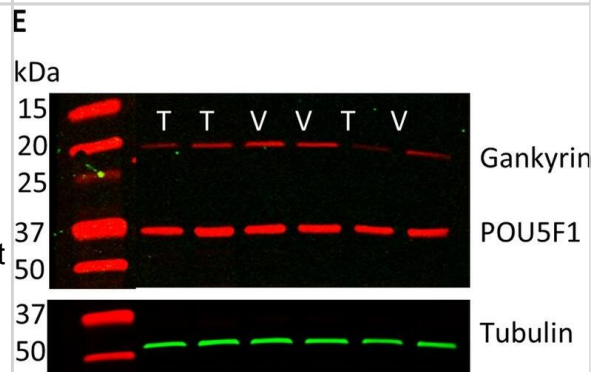
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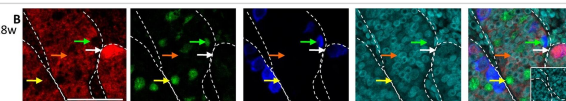
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Western Blot: Gankyrin Antibody [NBP1-82443] - Effects of Gankyrin knock-down on Gankyrin & POU5F1 expression. Relative Gankyrin mRNA(a) & protein (b) expression in NTERA2 cells after Gankyrin knock-down. Relative POU5F1 mRNA (c) & protein (d) expression in NTERA2 cells after Gankyrin knock-down. e Representative Western blot for Gankyrin & POU5F1 expression in (V) vehicle & Gankyrin siRNA (T) transfected NTERA2 cells. Tubulin was used as a loading control. Data analysed by paired t-test  $\pm$  SEM, \*\*\*p < 0.001, \*\*p < 0.01. Each data point represents the mean of an individual experiment, each with 3 replicates. Paired samples from an individual experiment are represented by the same colour. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31744479>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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## Publications

Camacho-Moll ME, Macdonald J, Looijenga LHJ et al. The oncogene Gankyrin is expressed in testicular cancer and contributes to cisplatin sensitivity in embryonal carcinoma cells BMC Cancer 2019-11-19 [PMID: 31744479] (IF/IHC, Human)



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### **Products Related to NBP1-82443**

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NBP1-82443PEP	Gankyrin 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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