

Product Datasheet

ZNF354C Antibody - BSA Free NBP1-81352

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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NBP1-81352

ZNF354C 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

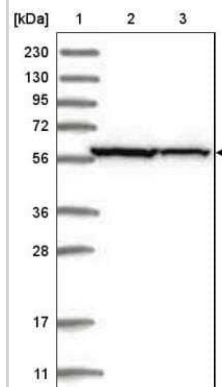
Product Description	
Description	Novus Biologicals Rabbit ZNF354C Antibody - BSA Free (NBP1-81352) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ZNF354C Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	30832
Gene Symbol	ZNF354C
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LVSLGIPFSMPKLIHQQLQQGEDPCMVEREVPSDTRLGFKTWLETEALPHRQDIF IEETSQGMVKKESIKDGHWDINFEEAVEFE

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation-exo-Seq
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, Chromatin Immunoprecipitation-exo-Seq 1-10ug per reaction
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

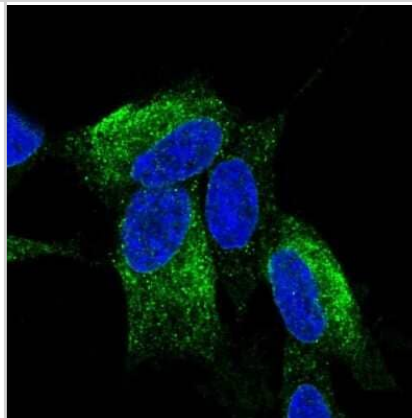


Images

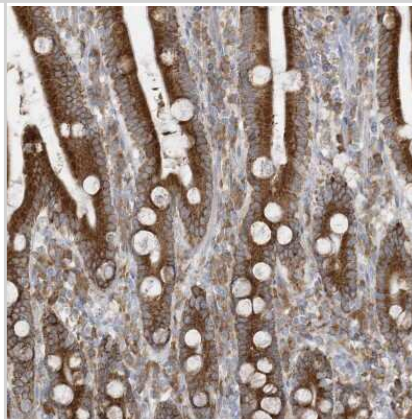
Western Blot: ZNF354C Antibody [NBP1-81352] - Lane 1: Marker [kDa] 230, 130, 95, 72, 56, 36, 28, 17, 11. Lane 2: Human cell line RT-4. Lane 3: Human cell line U-251MG sp



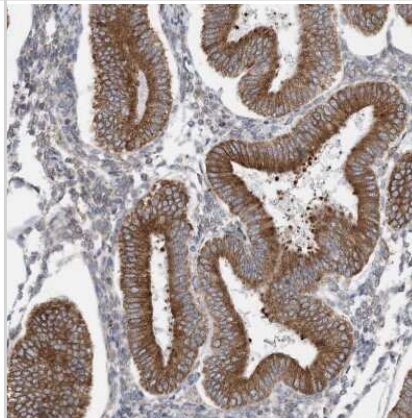
Immunocytochemistry/Immunofluorescence: ZNF354C Antibody [NBP1-81352] - Staining of human cell line SH-SY5Y shows localization to nuclear membrane & cytosol. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: ZNF354C Antibody [NBP1-81352] - Staining of human duodenum shows strong cytoplasmic positivity in glandular cells.



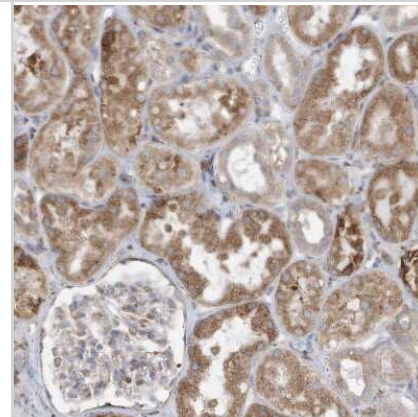
Immunohistochemistry-Paraffin: ZNF354C Antibody [NBP1-81352] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



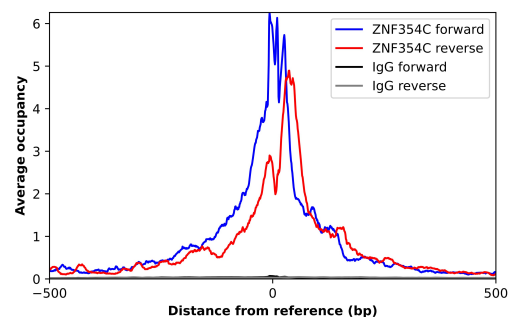
Immunohistochemistry-Paraffin: ZNF354C Antibody [NBP1-81352] - Staining of human prostate shows moderate cytoplasmic positivity in glandular cells.



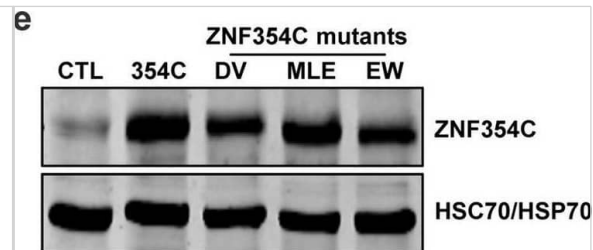
Immunohistochemistry-Paraffin: ZNF354C Antibody [NBP1-81352] - Staining of human kidney shows moderate cytoplasmic positivity in cells in tubules.



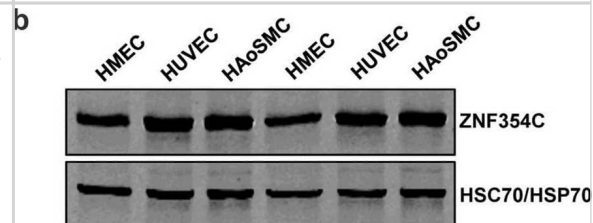
ChIP-Exo-Seq composite graph for Anti-ZNF354C (NBP1-81352) tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment 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.



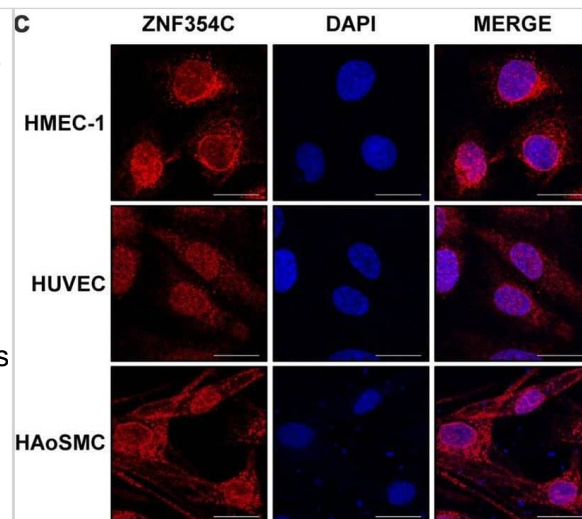
The conserved amino acid sequence MLE within the KRAB domain of ZNF354C mediates transcriptional repression. (a) Schematic of the ZNF354C protein architecture with its KRAB domain and 11 C2H2 Zinc fingers. Amino acids within the KRAB domain as targets for site-directed mutagenesis are indicated. Numbers below the protein indicate the amino acid position. (b) Alignment of KRAB sequences of various ZNF proteins with ZNF354C as a reference. The numbers within the protein names indicate the amino acid positions within the respective protein. The underlined (blue) and red amino acids were subjected to site-directed mutagenesis. (c) Alignment of the human ZNF354C KRAB sequence with other mammalian ZNF354C homologues. The numbers within the protein names indicate the amino acid positions within the respective protein. The underlined (blue) and red amino acids were subjected to site-directed mutagenesis. (d, e) RT-qPCR (d) and western blot (e) of ZNF354C after overexpression of pCMV6-ZNF354C (354C) or the individual mutants DV (DV → AA), MLE (MLE → KKK) or EW (EW → AA). pCMV6-Entry served as negative control (CTL). Data in d is normalised to b-actin. n = 9. Data are mean ± SEM. Paired t-test; *P < 0.05. In e, antibodies against ZNF354C and HSC70/HSP70 are shown. (f) RT-qPCR of RGS5, PATL2, HAP1, NRAV and HERC5 after overexpression of pCMV6-ZNF354C (WT, dotted line, set as 1) or the individual mutants DV (DV → AA), MLE (MLE → KKK) or EW (EW → AA). Data is normalised to b-actin. n = 3. Data are mean ± SEM. Paired t-test; *P < 0.05. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33154469>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Zinc Finger Protein 354C (ZNF354C) overexpression leads to inhibition of sprouting in HMEC-1. (a) RNA expression level as measured with RT-qPCR of ZNF354C in different cell types. Data is normalised to HUVEC batch 1 (set as 1) and to b-actin. n = 3. Data are mean ± SEM. (b) Representative western blot of HUVEC, HMEC-1 and HAoSMC. ZNF354C antibody was used. HSC70/HSP70 antibodies served as loading control. (c) Immunofluorescence with an antibody against ZNF354C in HMEC-1, HUVEC and HAoSMC. Nuclei were stained with DAPI. Scale bar indicates 20 μm. (d) RT-qPCR of ZNF354C after overexpression (OE) of pCMV6-ZNF354C (354C) in HMEC-1, HUVEC and HAoSMC. pCMV6-entry was used as negative control (CTL). Data is normalized to b-actin. n = 5. Data are mean ± SEM. Mann-Whitney t-test; *P < 0.05. (e) Representative western blot of untreated (native) HMEC-1, HUVEC and HAoSMC or after overexpression of pCMV6-ZNF354C (ZNF354C) or pCMV6-entry (CTL). ZNF354C, Flag or b-actin antibodies were used. (f) Immunofluorescence with an antibody against ZNF354C in HMEC-1 after overexpression of pCMV6-ZNF354C or pCMV6-entry. Nuclei were stained with DAPI. Scale bar indicates 20 μm. (g, h) Spheroid outgrowth assay quantification of sprout number (g) and cumulative sprout length (h) after overexpression of pCMV6-ZNF354C (354C) or pCMV6-entry (NC). Cells were studied under basal conditions or after treatment with VEGF-A or TNF-α. Scale bar indicates 50 μm. n = 13. One-Way ANOVA with Bonferroni post-hoc test. *P < 0.05. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33154469>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Oo JA, Irmer B, Günther S et al. ZNF354C is a transcriptional repressor that inhibits endothelial angiogenic sprouting. *Scientific Reports* 2020-11-05 [PMID: 33154469] (Human)

Josipovic I, Pfluger B, Fork C, Vasconez AE. Long noncoding RNA LISPR1 is required for S1P signaling and endothelial cell function. *J. Mol. Cell. Cardiol.* 2018-01-31 [PMID: 29408197] (Human)



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Products Related to NBP1-81352

NBP1-81352PEP	ZNF354C 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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