

Product Datasheet

GRAMD1A Antibody - BSA Free NBP1-93730

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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NBP1-93730

GRAMD1A Antibody - BSA Free

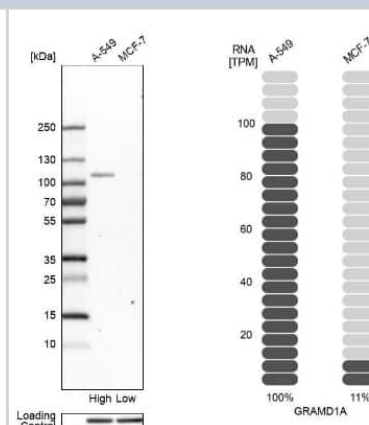
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	57655
Gene Symbol	GRAMD1A
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SSTGEEADLAALLPDLSGRLLINSVFHVGAERLQQMLFSDSPFLQGFLQQCKFT DVTLSPPWSGDSKCHQRRVLTYPISNPLGPKSASVVETQTLFRRGPQAGGCV VDSEVLTQGIPYQDYFYTAHRY

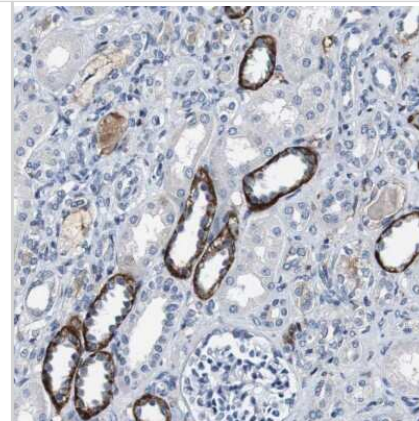
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

Western Blot: GRAMD1A Antibody [NBP1-93730] - Analysis in human cell lines A-549 and MCF-7 using anti-GRAMD1A antibody. Corresponding GRAMD1A RNA-seq data are presented for the same cell lines. Loading control: anti-HSP90B1.



Immunohistochemistry-Paraffin: GRAMD1A Antibody [NBP1-93730] - Staining of human kidney shows strong cytoplasmic positivity in cells in tubules.



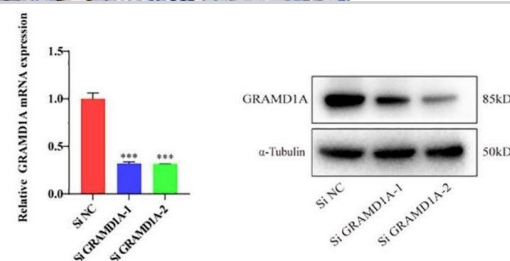
Functional Characterization of GRAMD1A in WiT-49 Wilms Tumor Cells. **B**

(A) GRAMD1A expression levels in WiT-49 cells, demonstrating baseline expression prior to gene silencing. (B) Verification of GRAMD1A knockdown efficiency in WiT-49 cells transfected with GRAMD1A-specific siRNA (siGRAMD1A) or negative control siRNA (siNC).

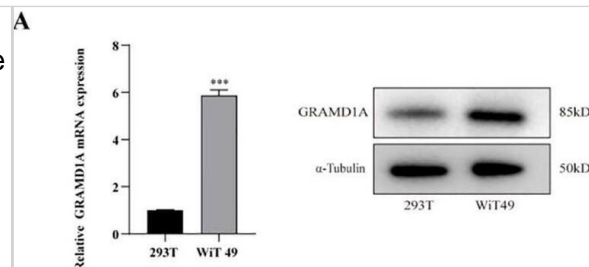
GRAMD1A mRNA levels were measured using RT-qPCR, while protein levels were assessed via Western blot analysis. (C) Colony formation assay showing the effects of GRAMD1A silencing on the proliferation capability of WiT-49 cells, highlighting reduced colony formation in GRAMD1A knockdown cells compared to siNC.

(D) CCK-8 assay results depicting the effect of GRAMD1A knockdown on cell viability over time in WiT-49 cells. Cells transfected with siGRAMD1A exhibited significantly reduced viability compared to control cells, indicating GRAMD1A's role in promoting cell proliferation. (E) Transwell migration and invasion assays used to assess the impact of GRAMD1A silencing on the migratory and invasive behavior of WiT-49 cells. GRAMD1A knockdown led to a marked reduction in both migration and invasion compared to the negative control group. These results collectively demonstrate the role of GRAMD1A in regulating the proliferation, migration, and invasion of WiT-49 cells, further supporting its potential as a therapeutic target in Wilms Tumor. (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$). Image collected and cropped by CiteAb from the following open publication

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Functional Characterization of GRAMD1A in WiT-49 Wilms Tumor Cells. (A) GRAMD1A expression levels in WiT-49 cells, demonstrating baseline expression prior to gene silencing. (B) Verification of GRAMD1A knockdown efficiency in WiT-49 cells transfected with GRAMD1A-specific siRNA (siGRAMD1A) or negative control siRNA (siNC). GRAMD1A mRNA levels were measured using RT-qPCR, while protein levels were assessed via Western blot analysis. (C) Colony formation assay showing the effects of GRAMD1A silencing on the proliferation capability of WiT-49 cells, highlighting reduced colony formation in GRAMD1A knockdown cells compared to siNC. (D) CCK-8 assay results depicting the effect of GRAMD1A knockdown on cell viability over time in WiT-49 cells. Cells transfected with siGRAMD1A exhibited significantly reduced viability compared to control cells, indicating GRAMD1A's role in promoting cell proliferation. (E) Transwell migration and invasion assays used to assess the impact of GRAMD1A silencing on the migratory and invasive behavior of WiT-49 cells. GRAMD1A knockdown led to a marked reduction in both migration and invasion compared to the negative control group. These results collectively demonstrate the role of GRAMD1A in regulating the proliferation, migration, and invasion of WiT-49 cells, further supporting its potential as a therapeutic target in Wilms Tumor. (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/39659787>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Laraia L, Friese A, Corkery DP et al. The cholesterol transfer protein GRAMD1A regulates autophagosome biogenesis *Nat. Chem. Biol.* 2019-07-01 [PMID: 31222192] (WB, Human)



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Products Related to NBP1-93730

NBP1-93730PEP	GRAMD1A 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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