

Product Datasheet

B4GALT7 Antibody - BSA Free

NBP1-88652

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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NBP1-88652

B4GALT7 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

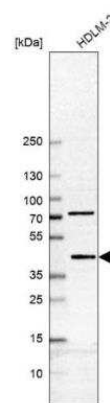
Host	Rabbit
Gene ID	11285
Gene Symbol	B4GALT7
Species	Human, Chinese Hamster
Reactivity Notes	Chinese Hamster reactivity reported in scientific literature (PMID: 31278392).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: PEHWEEDASWGPHRLAVLVPFRERFEELLVFVPHMRRFLSRKKIRHHIYVLNQ VDHFRFNRAALINVGFLSSNSTDYIAMHDVDLLPLNEELDYGFPEAGPFHVAS PELHPLYHYKTYVG

Product Application Details

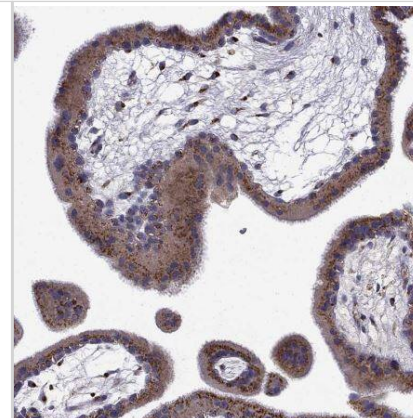
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 -1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

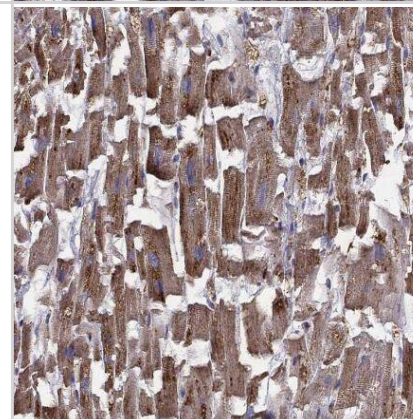
Western Blot: B4GALT7 Antibody [NBP1-88652] - Analysis in human cell line HDLM-2.



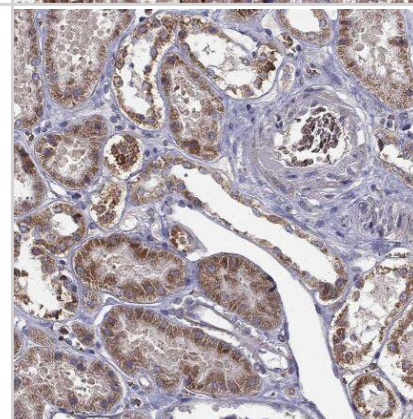
Immunohistochemistry-Paraffin: B4GALT7 Antibody [NBP1-88652] - Staining of human placenta shows moderate granular cytoplasmic positivity in trophoblastic cells.



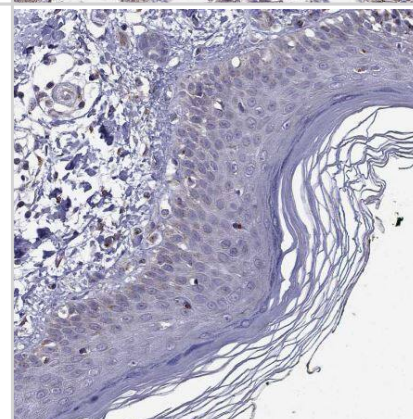
Immunohistochemistry-Paraffin: B4GALT7 Antibody [NBP1-88652] - Staining of human heart muscle shows moderate granular cytoplasmic positivity in cardiomyocytes.



Immunohistochemistry-Paraffin: B4GALT7 Antibody [NBP1-88652] - Staining of human kidney shows moderate granular cytoplasmic positivity in cells in tubules.



Immunohistochemistry-Paraffin: B4GALT7 Antibody [NBP1-88652] - Staining of human skin shows no positivity in squamous epithelial cells as expected.

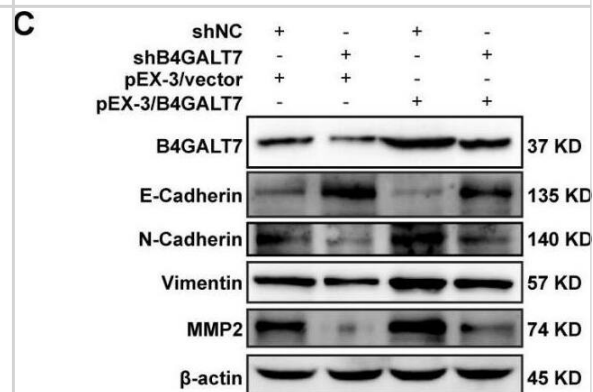
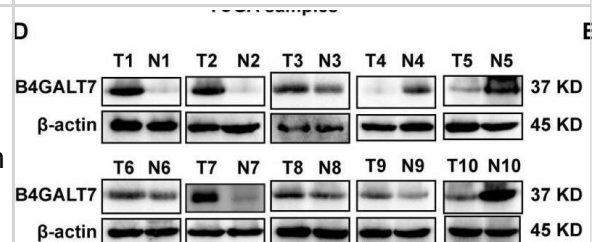
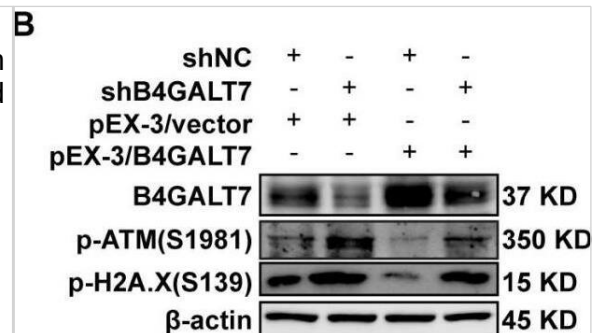


Down-regulation of B4GALT7 results in DNA damage and arrests the cell cycle at the G2/M phase. (A–B) p-ATM and p-H2A. X protein levels in SNU-423 and SK-Hep-1 cells transfected with shB4GALT7 or shNC, and further transfected with pEX-3/B4GALT7 or pEX-3/vector. (C) Cell cycle analysis in SNU-423 and SK-Hep-1 cells after shRNA mediated B4GALT7 inhibition. Mean $\pm$ SD for three independent experiments are demonstrated. (D–E) p-Chk2, p-Wee1, p-cdc2 and cyclin B1 protein levels in B4GALT7-downregulation SNU-423 and SK-Hep-1 cells, and further transfected with pEX-3/B4GALT7 or pEX-3/vector. *, $P < 0.05$; **, $P < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38025683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

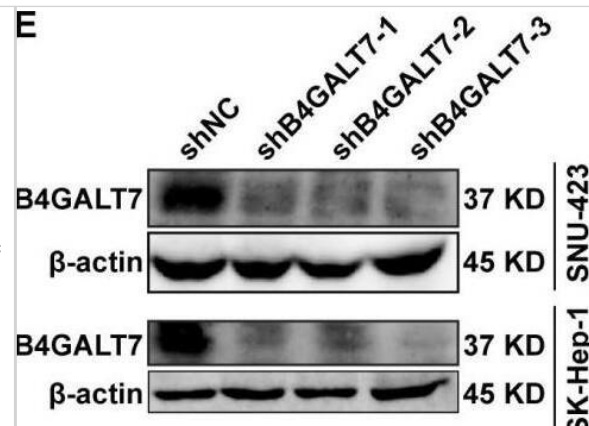
B4GALT7 is highly expressed in HCC tissues. (A) B4GALT7 expression levels in three GEO datasets, GSE14520, GSE25097 and GSE84402. (B) B4GALT7 levels in the TCGA database. (C) Survival probability of HCC patients with different expression of B4GALT7. The expression of B4GALT7 was analyzed by (D) western blotting and (E) real-time PCR in 10 pairs HCC samples and para-tumor specimens. (F) Representative immunohistochemical staining results of B4GALT7 based on the HPA database. (G) The expression landscape of B4GALT7 in the TIMER2.0 database. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38025683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

The effects of B4GALT7 and miR-338-3p on HCC cell invasion. (A) Matrigel-based transwell assay was conducted in HCC cells transfected with pEX-3/vector, pEX-3/B4GALT7, and co-transfected with pEX-3/B4GALT7 and miR-338-3p mimics. (B) Western blotting assay revealed the expression levels of EMT marker proteins can be reversed when co-transfected with pEX-3/B4GALT7 and miR-338-3p mimics. (C) Representative western blots of EMT marker protein levels in SNU-423 cells transfected with shB4GALT7 or shNC, and further transfected with pEX-3/B4GALT7 or pEX-3/vector. *, $P < 0.05$; **, $P < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38025683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

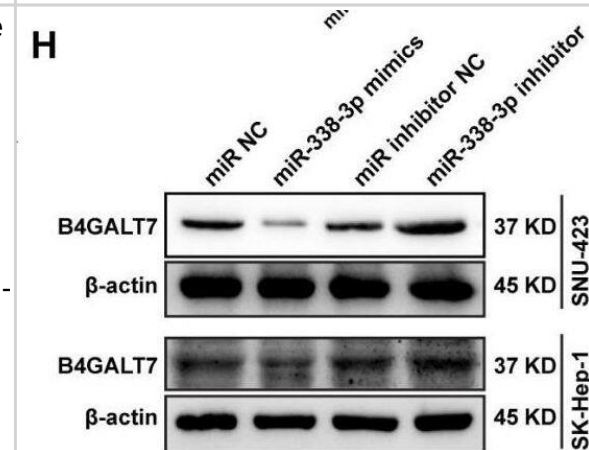
Down-regulation of B4GALT7 inhibits HCC cell proliferative abilities in vitro. (A) qPCR and (B) Western blotting analysis of the expression of B4GALT7 in HCC cells (SNU-423, SMMC-7721, SK-Hep-1, HepG2, Huh-7) and normal liver cell HL-7702. (C) Representative pictures of the green fluorescence intensity of HCC cells after transfected with shRNA vectors to mediate B4GALT7 inhibition. (D) qPCR and (E) Western blotting analysis of B4GALT7 expression in HCC cells after transfected as in C. Down-regulation of B4GALT7 inhibits the proliferative abilities of HCC cells (SNU-423, SK-Hep-1) determined by (F) MTT assay and (G) Colony formation assay. (H) Representative pictures of flow cytometry analysis of apoptosis stained with Annexin V-APC and 7-AAD in HCC cells transfected as in C. Scale bar: 100 μ m. Mean $\pm$ SD for three independent experiments are demonstrated. *, $P < 0.05$; **, $P < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38025683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



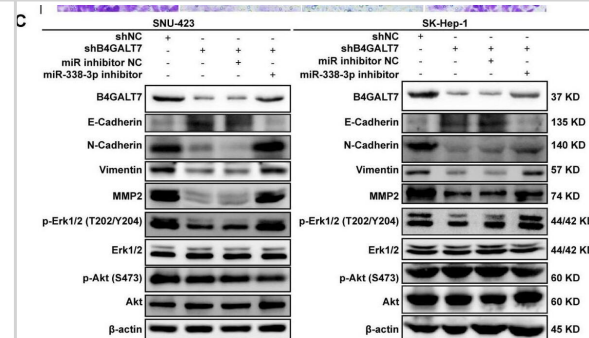
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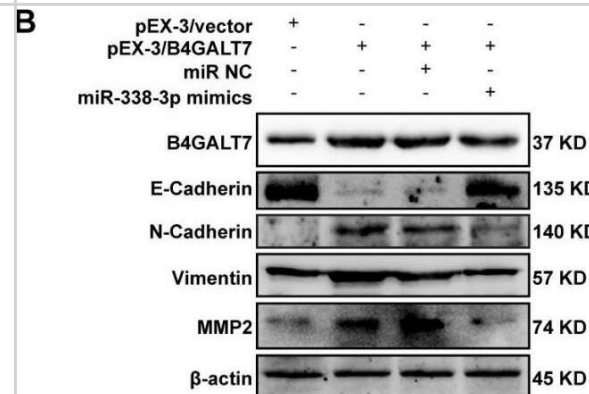
The reciprocal suppression effects of B4GALT7 and miR-338-3p. (A) The potential interaction between B4GALT7 and miR-338-3p predicted by TargetScan. (B) Expression levels of miR-338-3p in HCC cells (SNU-423, SK-Hep-1) and normal liver cell HL-7702. (C) Dual luciferase reporter assay demonstrated the luciferase activities in HEK-293T and SNU-423 cells following the indicated transfection. (D–E) Expression levels of miR-338-3p in SNU-423 and SK-Hep-1 cells with B4GALT7 overexpression and after shRNA mediated B4GALT7 inhibition. (F–G) qPCR and (H) Western blotting analysis of B4GALT7 expression in SNU-423 and SK-Hep-1 cells after transfected with miR-338-3p mimics and inhibitor. *, $P < 0.05$; **, $P < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38025683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



The effects of B4GALT7 and miR-338-3p on HCC cell invasion and migration. (A–B) Wound healing assay, matrigel-free and matrigel-based transwell assays were performed in SNU-423 and SK-Hep-1 cells transfected with shNC, shB4GALT7, and co-transfected with sh-B4GALT7 and the miR-338-3p inhibitor. Migration of the cells to the wound was photographed at 0 h and 48 h. Scale bar: 100 μ m. (C) Western blotting assay revealed the expression levels of EMT marker proteins and the phosphorylation status of signaling proteins can be rescued when co-transfected with sh-B4GALT7 and the miR-338-3p inhibitor. *, $P < 0.05$; **, $P < 0.01$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38025683>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

- Liu C, Jia Y, Zhao X et al. Targeting B4GALT7 suppresses the proliferation, migration and invasion of hepatocellular carcinoma through the Cdc2/CyclinB1 and miR-338-3p/MMP2 pathway PeerJ 2023-11-21 [PMID: 38025683]
- Mihalic Mosher T, Zygmunt DA, Koboldt DC et al. Expansion of B4GALT7 linkeropathy phenotype to include perinatal lethal skeletal dysplasia Eur. J. Hum. Genet. 2019-07-05 [PMID: 31278392] (WB, Chinese Hamster)





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NBP2-24891	Rabbit IgG Isotype Control

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