

Datasheet for ABIN675728

anti-WNT2B antibody (AA 301-391)



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Overview

Quantity:	100 µL
Target:	WNT2B
Binding Specificity:	AA 301-391
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This WNT2B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human WNT2B
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	WNT2B
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Target Details

Alternative Name:	WNT2B (WNT2B Products)
Background:	<p>Synonyms: WNT13, Protein Wnt-2b, Protein Wnt-13, WNT2B</p> <p>Background: Ligand for members of the frizzled family of seven transmembrane receptors.</p> <p>Probable developmental protein. May be a signaling molecule which affects the development of discrete regions of tissues. Is likely to signal over only few cell diameters. May be involved in normal development or differentiation as well as in carcinogenesis.</p>
Gene ID:	7482
UniProt:	Q93097
Pathways:	WNT Signaling

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

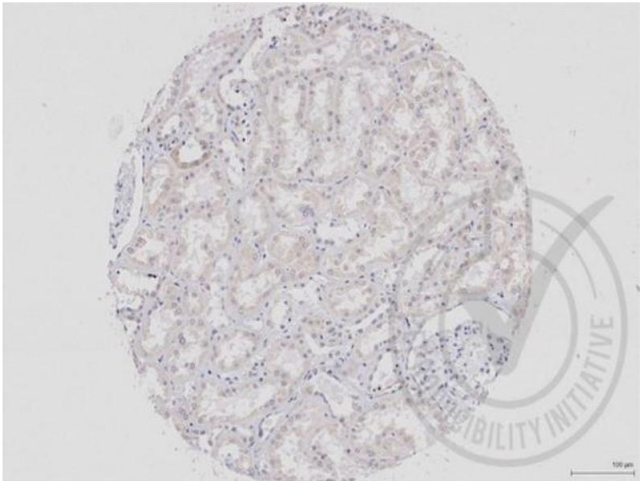
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

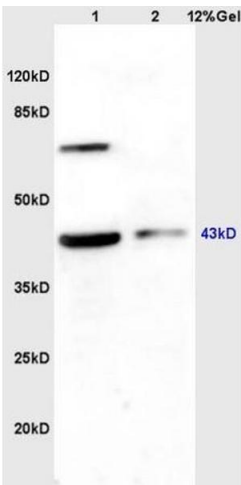
Product cited in: Li, Liu, Su, Ren, Zhu, Tian, Qiu: "MicroRNA-324-3p regulates nasopharyngeal carcinoma radioresistance by directly targeting WNT2B." in: **European journal of cancer (Oxford, England : 1990)**, Vol. 49, Issue 11, pp. 2596-607, (2014) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Independently Validated Antibody, image provided by Science Direct, badge number 029457:Formalin-fixed and paraffin embedded human kidney labeled with Anti-WNT2B Polyclonal Antibody, Unconjugated (ABIN675728) at 1:250 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 2. Lane 1: rat brain lysates Lane 2: mouse intestine lysates probed with Anti WNT2B AVPR2 Polyclonal Antibody, Unconjugated (ABIN675728) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 43kD. Observed band size: 43kD.



Successfully validated (Immunohistochemistry (IHC))

by [Immunohistochemistry Core, NYU Langone](#)

Report Number: 029638

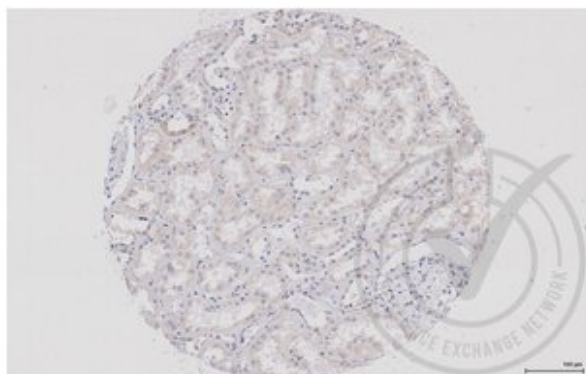
Date: Mar 14 2014

Lot Number:	120522
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Human kidney
Negative Control:	Human liver
Notes:	Faint but distinguishable signal was detected in positive control sample and not in negative control sample.
Primary Antibody:	- Antigen: Wingless-Type MMTV Integration Site Family, Member 2B (WNT2B) (N-Term) - Catalog number: ABIN675728 - Supplier: Bioss - Supplier catalog number: bs-1946R - Lot number: 120522
Secondary Antibody:	- Antibody: Biotinylated goat anti-rabbit/anti-mouse (Kit) - Supplier: Ventana Medical Systems - Catalog number: 760-091 - Lot number: D07640BA
Isotype:	- Antibody: Rabbit IgG isotype control - Supplier: Ventana Medical Systems - Catalog number: 790-2014 - Lot number: C11245
Controls:	<ul style="list-style-type: none">• Positive control: Human kidney tissue stained with antibody• Negative control: Human liver tissue stained with antibody• Isotype control: Human kidney tissue stained with isotype control• Secondary only control: Human kidney tissue stained with secondary antibody only
Protocol:	<ul style="list-style-type: none">• Immunohistochemistry was performed on a Ventana NEXes automated platform; instrument manufacturer specific reagents are italicized.• 1. Slides were preheated in convection oven at 60°C for 30 min• 2. Deparaffinization procedure: - 3 changes of Xylene, 5 min each - 3 changes of 100% Ethanol, 3 min each - 3 changes of 95% Ethanol, 3 min each - Rinsed in distilled water, 3 changes• 3. Heat retrieval procedure - Slides retrieved in 10.0 mM Citrate, pH6.0 in a 1000W microwave oven (~100°C) for 15 min. - Slides were allowed to cool (in citrate) for 30 min. - Slides were washed x 3 in Distilled water• 4. NEXes instrument procedure, iView DAB paraffin protocol (*abridged*): - Slide chamber warmed to 37°C

- 5. Slides rinsed with *reaction buffer* x3
- 6. *iView Inhibitor (H2O2)* applied and incubated for 4 min
- 7. Slides rinsed with *reaction buffer*
- 8. Antibody Application - Primary antibody diluted 1:250 in PBS (100 microliter applied/slide) - Ventana Isotype control applied neat - Slides Incubated overnight at room temperature (~12 hours ~25°C)
- 9. Slides rinsed with *reaction buffer* x3
- 10. *iView Biotinylated IgG* applied and incubated for 8 min
- 11. Slides rinsed with *reaction buffer*
- 14. *iView Streptavidin-Horseradish Peroxidase* applied and incubated for 8 min
- 15. Slides rinsed with *reaction buffer*
- 16. *iView DAB/H2O2* applied and incubated for 8 min
- 17. Slides rinsed with *reaction buffer*
- 18. *iView Copper* applied and incubated for 4 min
- 19. Slides rinsed with *reaction buffer*
- 20. Slides washed in Dawn Detergent/tap water
- 21. Counterstain Procedure - Hematoxylin (Leica 560 MX) 30 sec - Slides washed in tap water, 1 min - Decolorized (10% Acetic Acid in 70% ethanol), 1 min - Slides washed in tap water, 1 min - Bluing (Austin Clear Ammonia), 1 min - Slides washed in tap water, 1 min
- 22. Dehydration/coverslipping procedure: - 3 changes of 95% Ethanol, 3 min each - 3 changes of 100% Ethanol, 3 min each - 3 changes of Xylene, 5 min each - Mounted with Permount
- 23. Imaging: Leica SCN 400F Whole Slide Scanner with Digital Image Hub and Leica Slidepath software

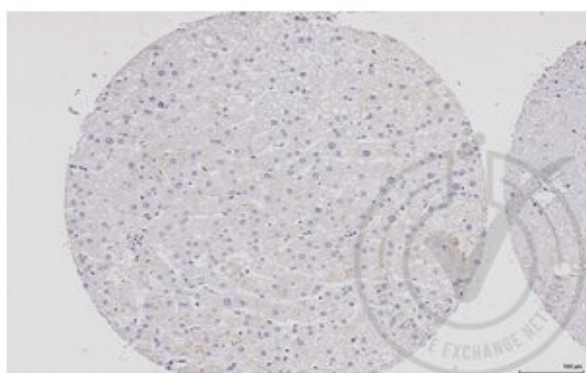
Experimental Notes:

- Deviations from protocol/procedure supplied by manufacturer (attached).
 - Step 1: Heated tissue 60°C for 30 minutes; manufacturer heats for 45 minutes.
 - Step 2: No ethanol wash was performed during deparaffinization; manufacturer includes 1 wash of 80% ethanol for 3 minutes.
 - Step 3.1: Slides were heated for 15 minutes; manufacturer provides a range of 15-20 minutes.
 - Step 3.2: Slides were cooled for 30 minutes; manufacturer cools for 20 minutes.
 - Step 4: Italicized reagents and incubation time are fixed instrument parameters.
 - Step 5: Secondary species-specific serum block not used; manufacturer blocks with 5% normal goat serum for 2 hours.
 - Step 8.1: Antibody diluted in PBS at 1:250; manufacture did not recommend diluent or dilution.
 - Step 8.2.1: Primary antibody incubated at room temperature overnight; manufacturer incubates overnight 4°C with agitation.
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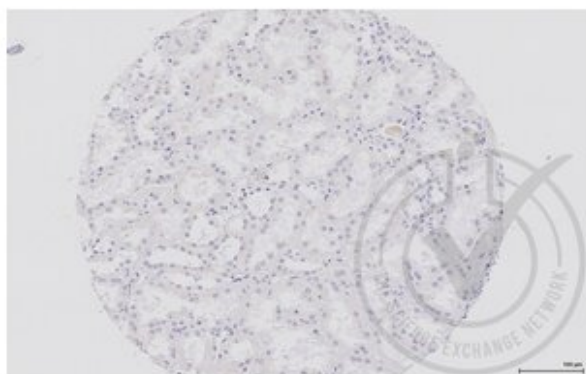
Validation image no. 1 for anti-Wingless-Type MMTV Integration Site Family, Member 2B (WNT2B) (AA 301-391) antibody (ABIN675728)

Figure 1: Human kidney tissue stained with anti-WNT2 (brown) and counterstained with hematoxylin.



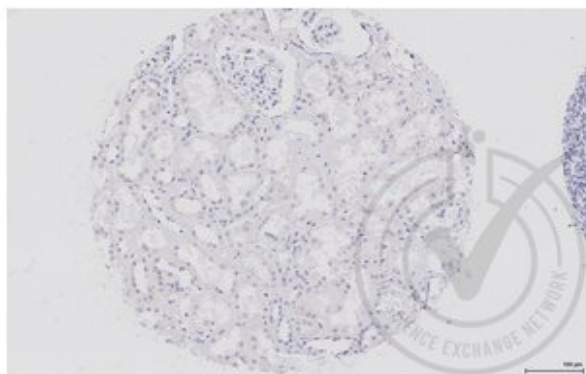
Validation image no. 2 for anti-Wingless-Type MMTV Integration Site Family, Member 2B (WNT2B) (AA 301-391) antibody (ABIN675728)

Figure 2: Human liver tissue stained with anti-WNT2 (brown) and counterstained with hematoxylin.



Validation image no. 3 for anti-Wingless-Type MMTV Integration Site Family, Member 2B (WNT2B) (AA 301-391) antibody (ABIN675728)

Figure 3: Human kidney tissue stained with isotype control antibody (brown) and counterstained with hematoxylin.



Validation image no. 4 for anti-Wingless-Type MMTV Integration Site Family, Member 2B (WNT2B) (AA 301-391) antibody (ABIN675728)

Figure 1: Human kidney tissue stained with secondary antibody only (brown) and counterstained with hematoxylin.