

# Validation Report #029638

Validation Date: 03/14/14

## Summary

Antigen	Wingless-Type MMTV Integration Site Family, Member 2B (WNT2B) (N-Term)
Catalog number	<a href="#">ABIN675728</a>
Supplier	Bioss
Supplier catalog number	<a href="#">bs-1946R</a>
Lot number	120522
Method validated	<a href="#">Immunohistochemistry</a>
Laboratory	<a href="#">Immunohistochemistry Core, NYU Langone</a>
Validation number	<a href="#">029638</a>
Positive Control	<a href="#">Human kidney</a>
Negative Control	<a href="#">Human liver</a>
Notes	Faint but distinguishable signal was detected in positive control sample and not in negative control sample.



# Full Methods

## 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

## Isotype Control Antibody

- Antibody: Rabbit IgG isotype control
- Supplier: Ventana Medical Systems
- Catalog number: 790-2014
- Lot number: C11245

## Secondary Antibody

- Antibody: Biotinylated goat anti-rabbit/anti-mouse (Kit)
- Supplier: Ventana Medical Systems
- Catalog number: 760-091
- Lot number: D07640BA

## Additional Information

Detection kit information:

- Type: iView Streptavidin Peroxidase DAB
- Supplier: Ventana Medical Systems
- Catalog number: 760-091
- Lot number: D07640A

## Controls

- 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

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*
12. *iView Streptavidin-Horseradish Peroxidase* applied and incubated for 8 min
13. Slides rinsed with *reaction buffer*
14. *iView DAB/H<sub>2</sub>O<sub>2</sub>* applied and incubated for 8 min
15. Slides rinsed with *reaction buffer*
16. *iView Copper* applied and incubated for 4 min
17. Slides rinsed with *reaction buffer*
18. Slides washed in Dawn Detergent/tap water
19. 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
20. Dehydration/cover slipping 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
21. 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.

## Figures

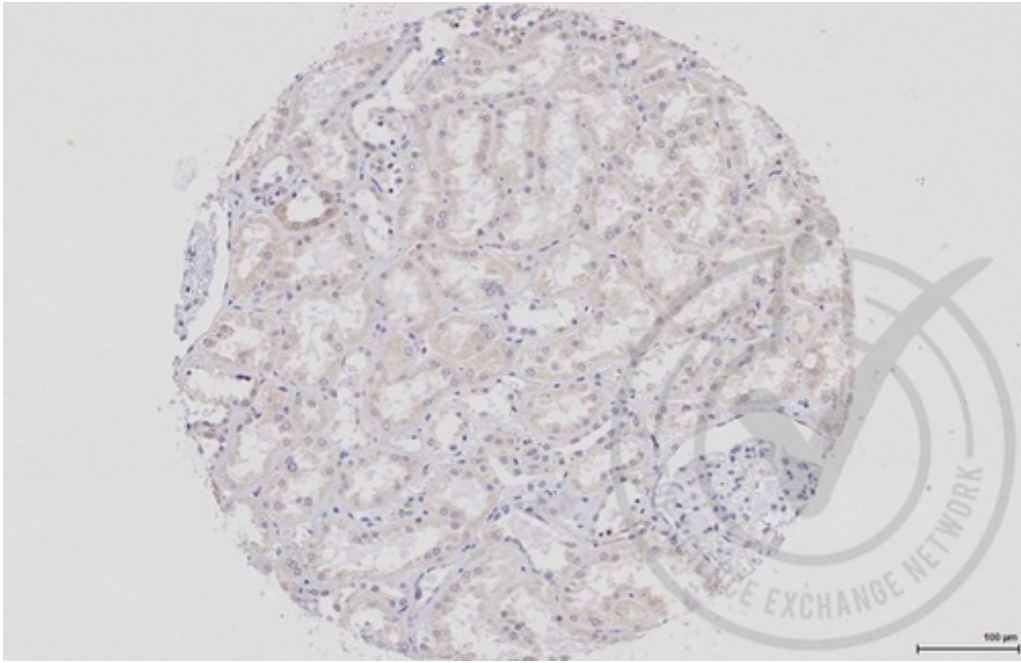


Figure 1: Human kidney tissue stained with anti-WNT2 (brown) and counterstained with hematoxylin.

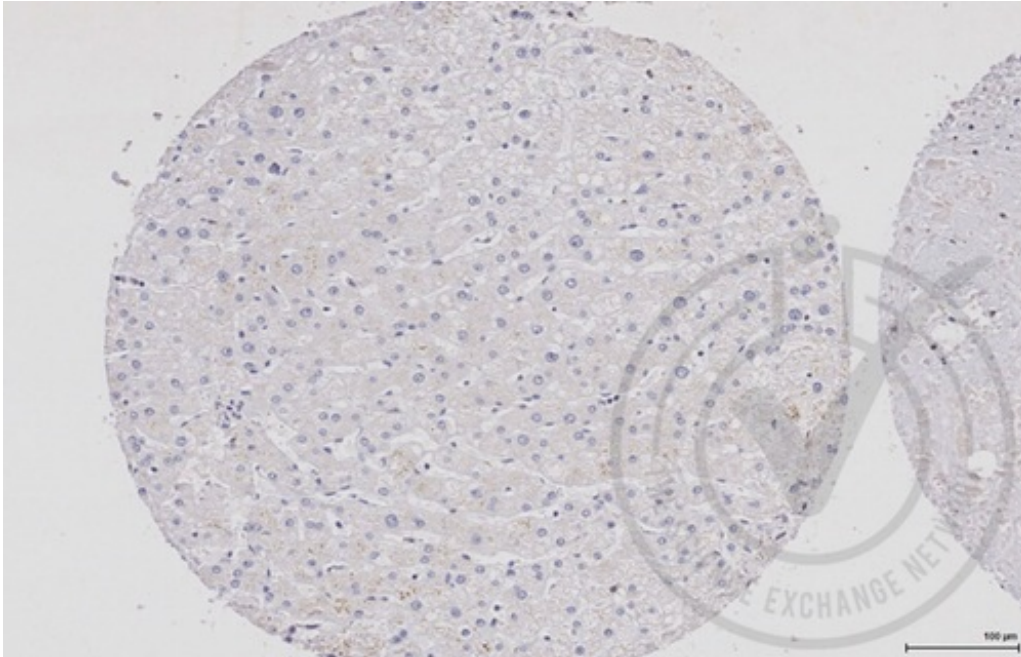


Figure 2: Human liver tissue stained with anti-WNT2 (brown) and counterstained with hematoxylin.

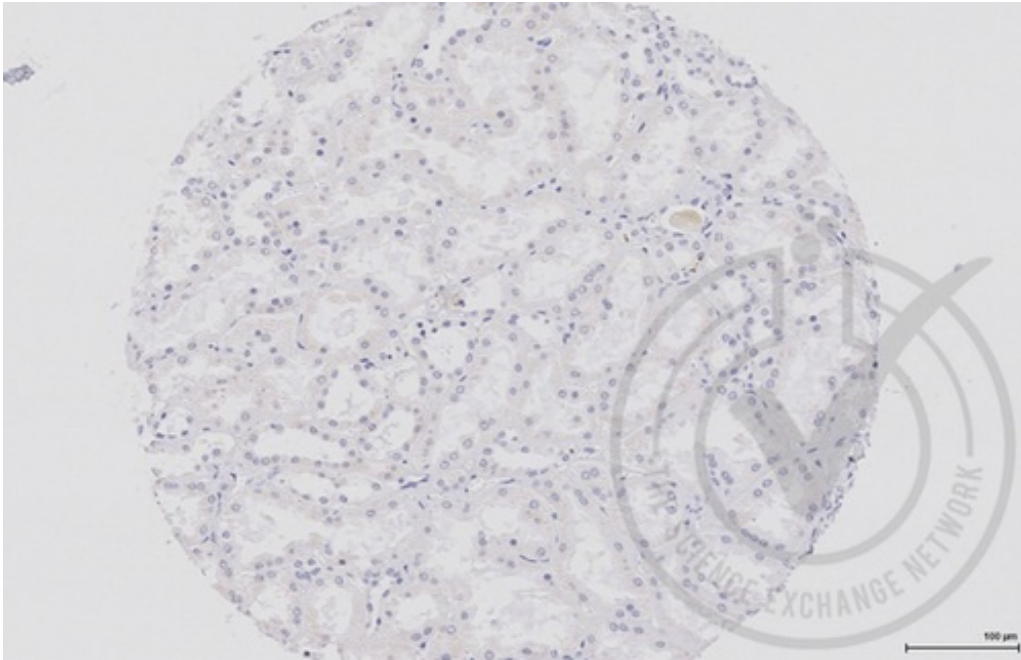


Figure 3: Human kidney tissue stained with isotype control antibody (brown) and counterstained with hematoxylin.

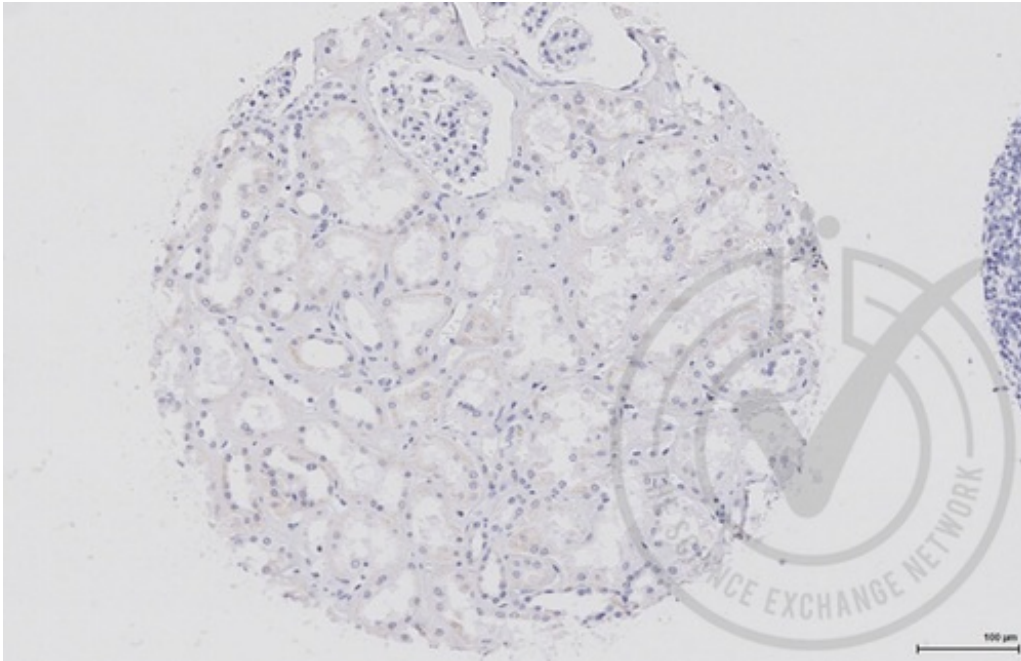


Figure 1: Human kidney tissue stained with secondary antibody only (brown) and counterstained with hematoxylin.