

Datasheet for ABIN762896
anti-WNT2 antibody (AA 221-320)[Go to Product page](#)**1** Validation**7** Images**1** Publication

Overview

Quantity:	100 µL
Target:	WNT2
Binding Specificity:	AA 221-320
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This WNT2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human WNT2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

Target Details

Target:	WNT2
Alternative Name:	WNT2 (WNT2 Products)
Background:	Synonyms: IRP, INT1L1, Protein Wnt-2, Int-1-like protein 1, Int-1-related protein, WNT2 Background: Ligand for members of the frizzled family of seven transmembrane receptors.

Target Details

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.

Gene ID: 7472

UniProt: [P09544](#)

Pathways: [WNT Signaling](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

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

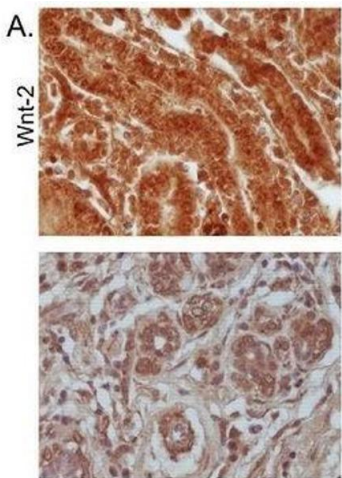
Product cited in: Król, Mucha, Majchrzak, Homa, Bulkowska, Majewska, Gajewska, Pietrzak, Perszko, Romanowska, Pawłowski, Manuali, Hellmen, Motyl: "Macrophages mediate a switch between canonical and non-canonical Wnt pathways in canine mammary tumors." in: **PLoS ONE**, Vol. 9,

Validation report #029629 for Immunohistochemistry (IHC)



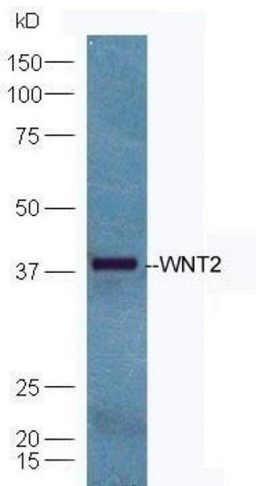
Western Blotting

Image 1. Image kindly provided by Dr. Magdalena Krol. Control tumor cells, tumor cells grown in macrophage-conditioned medium, tumor cells sorted from co-culture with macrophages, and macrophages from monocultures and sorted from co-culture with tumor cells were analyzed. Total protein concentrations in lysates were determined using a Bio-Rad protein assay. Proteins (50 mg) were resolved using SDS-PAGE and transferred onto PVDF membranes. The membranes were then blocked with 5% non-fat dry milk in TBS buffer containing 0.5% Tween 20. The membranes were then incubated overnight with the primary Rabbit Anti-WNT2 Polyclonal Antibody at 1:100 dilution. Subsequently, the membranes were washed three times in TBS containing 0.5% Tween 20 and incubated for 1 h at room temperature with secondary antibodies conjugated with the appropriate infrared (IR) fluorophore IRDyeH 800 CW or IRDyeH 680 RD at a dilution of 1:5000.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Image kindly submitted by Dr. Magdalena Krol. Formalin-fixed and paraffin embedded canine mammary tumor labeled with Rabbit Anti-WNT2 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. Mouse brain lysates probed with Anti-WNT2 Polyclonal Antibody, Unconjugated at 1:5000 90min in 37°C.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN762896.



Successfully validated (Immunohistochemistry (IHC))

by [Histopathology and Tissue Shared Resource, Georgetown Lombardi Comprehensive Cancer Center](#)

Report Number: 029629

Date: Mar 16 2014

Lot Number:	131105
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Human glioma tissue
Negative Control:	Human brain
Notes:	Signal was detected in positive control tissue and not in negative control tissue.
Primary Antibody:	- Antigen: Wingless-Type MMTV Integration Site Family Member 2 (WNT2) (N-Term) - Catalog number: ABIN762896 - Supplier: Bioss - Supplier catalog number: bs-6133R - Lot number: 131105
Secondary Antibody:	- Antibody: Envision Plus Horse Radish Peroxidase conjugated anti-rabbit antibody - Catalog number: K4003 - Supplier: DAKO - Batch number: 10082183
Isotype:	- Antibody: Rabbit IgG isotype control - Supplier: Immunoreagents - Catalog number: Rb-003-N - Batch number: 27-165-120613
Controls:	<ul style="list-style-type: none">• Positive control: Human Glioma (specimen known to contain the target protein) from HTSR's Human Tissue Bank.• Negative Control: Human Normal Brain (specimen known to not contain the target protein) from HTSR's Human Tissue Bank.• Primary antibody isotype control: Human Glioma treated with primary antibody isotype control instead of the primary antibody.• Secondary antibody only control: Human Glioma treated with secondary antibody only (no primary antibody).
Protocol:	<ul style="list-style-type: none">• Immunohistochemistry was performed by hand.• Sections were de-paraffinized on a Leica Autostainer in Xylenes (1X 5 min, 2X 2 min), and rehydrated through Ethanol (2X 100% for 5 min each, 95% 2X 2 min each, 80%, 70%) to running tap water. - Sections were heated to 98°C for 20 min in 10 mM Sodium Citrate buffer pH 6.0 for antigen retrieval, then moved to RT in the same buffer for 20 min.• Sections were rinsed in de-ionized water for 5 min at RT.• Sections were blocked in Hydrogen Peroxide (Fisher, H325-500) for 30 min at RT.• Sections were rinsed in Tris Buffered Saline with 0.5% Tween-20 (TBST) 2 times for 5 min at

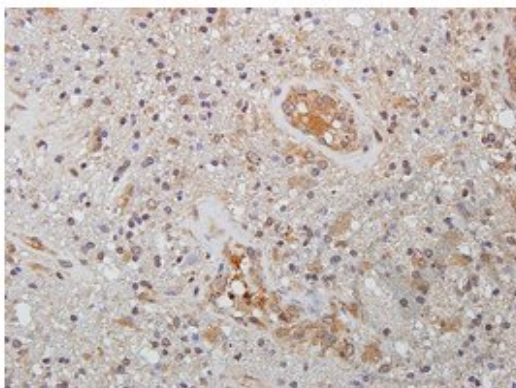
RT.

- Sections were blocked in 5% Normal Goat Serum for 2 h at RT.
- Sections were incubated with primary antibody diluted 1:250 in TBST overnight at 4°C.
- Sections were rinsed in TBST for 5 min 2X at RT.
- Sections were incubated with Envision Plus anti-Rabbit-Horse Radish Peroxidase conjugated Polymer for 2 h at RT.
- Sections were rinsed in TBST for 5 min 2X at RT.
- Sections were incubated with DAB chromogenic substrate (DAKO, K348) for 10 min at RT.
- Sections were washed x 1 in Distilled Water.
- Sections were counterstained with 1:9 dilution of Harris Hematoxylin (Fisher, SH30-500D) for 2 min.
- Sections were washed x 1 in Distilled Water.
- Sections were blued in Ammonium Hydroxide for 1 min.
- Sections were washed x 1 in Distilled Water.
- Sections were dehydrated through graded alcohols, mounted in Acrymount and photographed on an Olympus DX61 microscope with DP70 camera using DP Controller and DP Manager Software.

Experimental Notes:

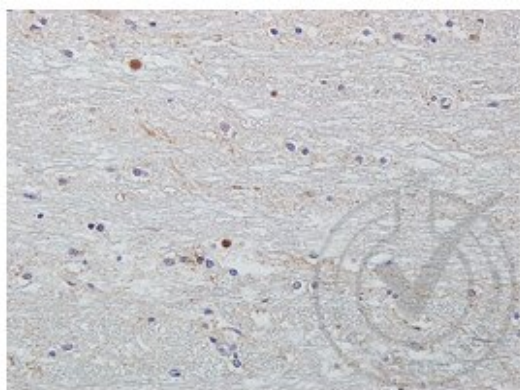
- The company recommends between 1:100 – 1:500 dilution factor; in our hands, 1:250 was overstained and we would recommend using a lower concentration of the antibody.
- The “normal” brain section we used proved to be from an individual who had morphological features of Parkinson’s Disease. The area shown in Figure 2 is from the morphologically normal part of the brain. The area with Parkinson’s morphology reacted strongly with the anti-wnt2 antibody (Figure 5).

Images for Validation report #029629



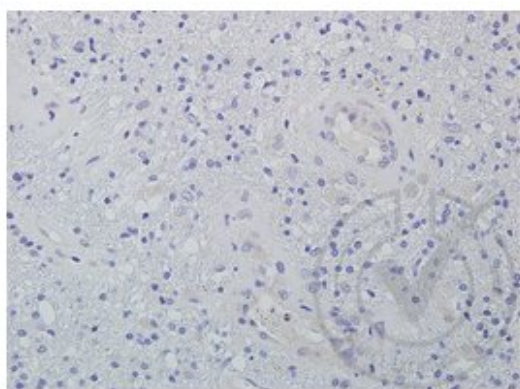
Validation image no. 1 for anti-Wingless-Type MMTV Integration Site Family Member 2 (WNT2) (AA 221-320) antibody (ABIN762896)

Figure 1: Human brain glioma tissue stained with anti-Wnt2 (brown) and counterstained with hematoxylin (blue).



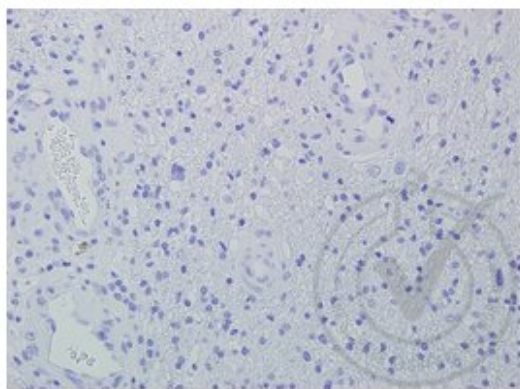
Validation image no. 2 for anti-Wingless-Type MMTV Integration Site Family Member 2 (WNT2) (AA 221-320) antibody (ABIN762896)

Figure 2: Human normal brain tissue stained with anti-Wnt2 (brown) and counterstained with hematoxylin (blue).



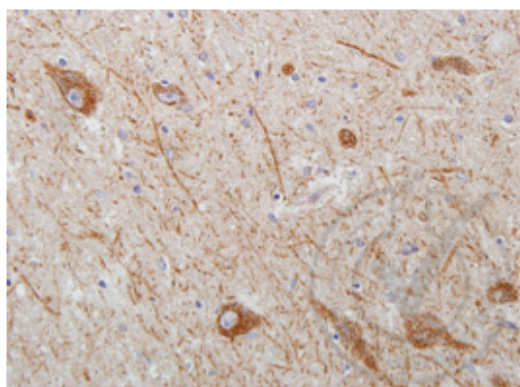
Validation image no. 3 for anti-Wingless-Type MMTV Integration Site Family Member 2 (WNT2) (AA 221-320) antibody (ABIN762896)

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



Validation image no. 4 for anti-Wingless-Type MMTV Integration Site Family Member 2 (WNT2) (AA 221-320) antibody (ABIN762896)

Figure 4: Human brain glioma tissue stained with secondary only (brown) and counterstained with hematoxylin (blue).



Validation image no. 5 for anti-Wingless-Type MMTV Integration Site Family Member 2 (WNT2) (AA 221-320) antibody (ABIN762896)

Figure 5: Human brain tissue with Parkinson's morphology stained with anti-Wnt2 (brown) and counterstained with hematoxylin (blue).