abcam

Product datasheet

Anti-Wnt1 antibody ab85060

5 References 5 Images

Overview

Product name	Anti-Wnt1 antibody
Description	Rabbit polyclonal to Wnt1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 100 - 200 of Human Wnt1.Read Abcam's proprietary immunogen policy(Peptide available as ab95923.)
Positive control	This antibody gave a positive signal in the following human tissue lysates: brain; spinal cord as well as both Mouse and Rat Brain tissue lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab85060** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

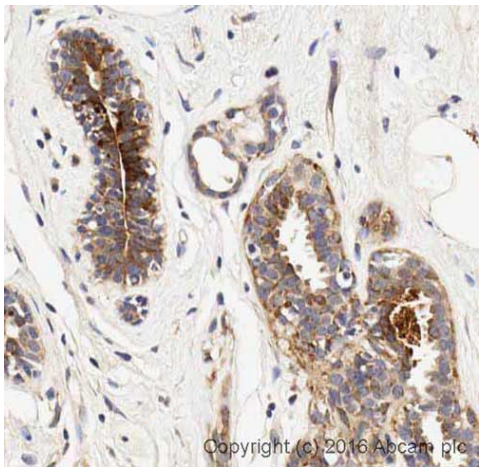
Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 47 kDa (predicted molecular weight: 41 kDa).

Target

Function	Ligand for members of the frizzled family of seven transmembrane receptors. In some developmental processes, is also a ligand for the coreceptor RYK, thus triggering Wnt signaling. Probable developmental protein. May be a signaling molecule important in CNS development. Is likely to signal over only few cell diameters.
Sequence similarities	Belongs to the Wnt family.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images

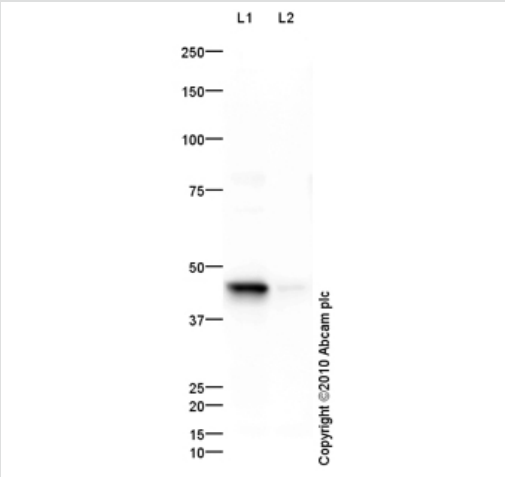


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Wnt1 antibody (ab85060)

IHC image of Wnt1 staining in human breast carcinoma formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab85060, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-Wnt1 antibody (ab85060)

All lanes : Anti-Wnt1 antibody (ab85060) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (ab29466)
Lane 2 : Human spinal cord tissue lysate - total protein (ab29188)

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

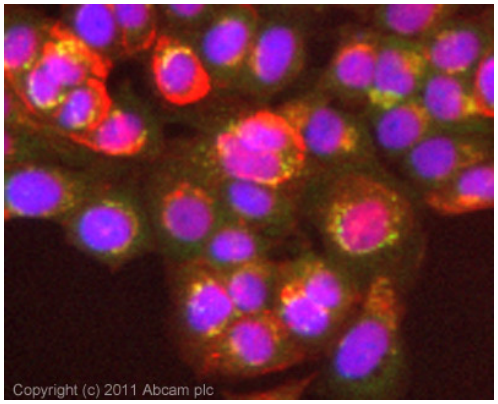
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 41 kDa
Observed band size: 47 kDa

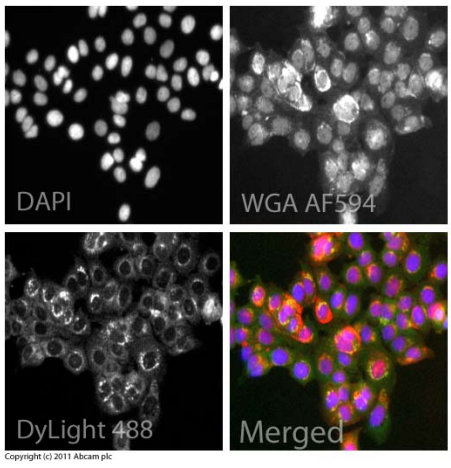
Exposure time: 5 minutes

Human Proto-oncogene protein Wnt-1 precursor contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



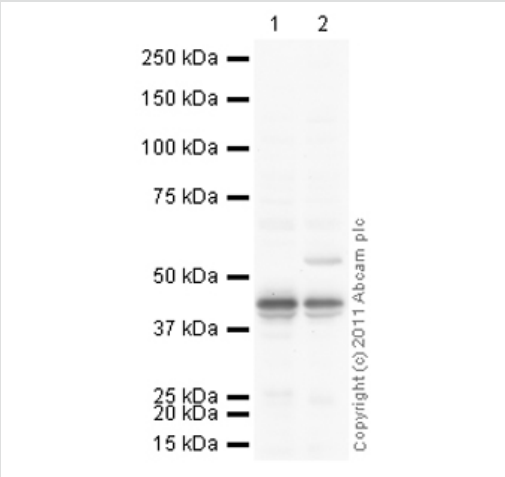
Immunocytochemistry/ Immunofluorescence - Anti-Wnt1 antibody (ab85060)

ICC/IF image of ab85060 stained MCF7 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85060, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 100% methanol fixed (5 min) HeLa, Hek293 and HepG2 cells at 1µg/ml



Immunocytochemistry/ Immunofluorescence - Anti-Wnt1 antibody (ab85060)

ICC/IF image of ab85060 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85060, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-Wnt1 antibody (ab85060)

All lanes : Anti-Wnt1 antibody (ab85060) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate
Lane 2 : Brain (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 41 kDa
Observed band size: 41 kDa
Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes

Wnt1 contains a number of potential glycosylation sites (SwissProt) which may explain the banding pattern observed.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors