


Product datasheet

Anti-Axin 2 antibody ab32197

★★★★☆ [15 Abreviews](#) [86 References](#) [3 Images](#)

Overview

Product name	Anti-Axin 2 antibody
Description	Rabbit polyclonal to Axin 2
Host species	Rabbit
Specificity	Milk blocking not recommended
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Chicken 
Immunogen	Synthetic peptide corresponding to Mouse Axin 2 aa 800 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab32196)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32197 in the following tested applications.

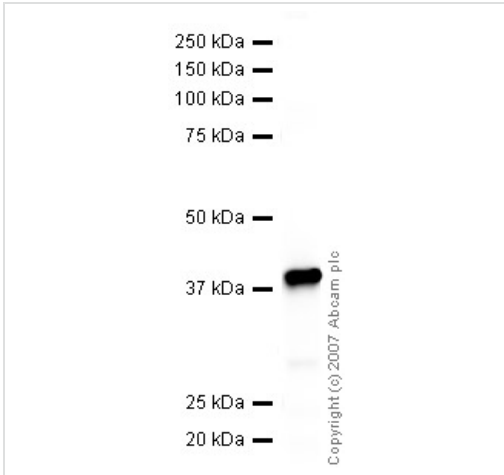
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (5)	Use a concentration of 0.1 - 1 µg/ml.
WB	★★★★★ (4)	Use a concentration of 1 µg/ml. Detects a band of approximately 94 kDa (predicted molecular weight: 94 kDa) in endogenous lysates. Ab32197 gave a positive signal against the tagged partial recombinant protein which has an expected molecular weight of 37 kDa.

Target

Function	Inhibitor of the Wnt signaling pathway. Down-regulates beta-catenin. Probably facilitate the phosphorylation of beta-catenin and APC by GSK3B.
Tissue specificity	Expressed in brain and lymphoblast.
Involvement in disease	Defects in AXIN2 are involved in colorectal cancer (CRC) [MIM:114500]. They appear to be specifically associated with defective mismatch repair. Defects in AXIN2 are the cause of oligodontia-colorectal cancer syndrome (ODCRCS) [MIM:608615]. Affected individuals manifest severe tooth agenesis and colorectal cancer or precancerous lesions of variable types.
Sequence similarities	Contains 1 DIX domain. Contains 1 RGS domain.
Domain	The tankyrase-binding motif (also named TBD) is required for interaction with tankyrase TNKS and TNKS2.
Post-translational modifications	Probably phosphorylated by GSK3B and dephosphorylated by PP2A. ADP-ribosylated by tankyrase TNKS and TNKS2. Poly-ADP-ribosylated protein is recognized by RNF146, followed by ubiquitination and subsequent activation of the Wnt signaling pathway. Ubiquitinated by RNF146 when poly-ADP-ribosylated, leading to its degradation and subsequent activation of the Wnt signaling pathway. Deubiquitinated by USP34, deubiquitinated downstream of beta-catenin stabilization step: deubiquitination is important Wnt signaling to positively regulate beta-catenin (CTNBB1)-mediated transcription.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-Axin 2 antibody (ab32197)

Anti-Axin 2 antibody (ab32197) at 1 µg/ml + AXIN2 partial recombinant tagged protein at 0.1 µg

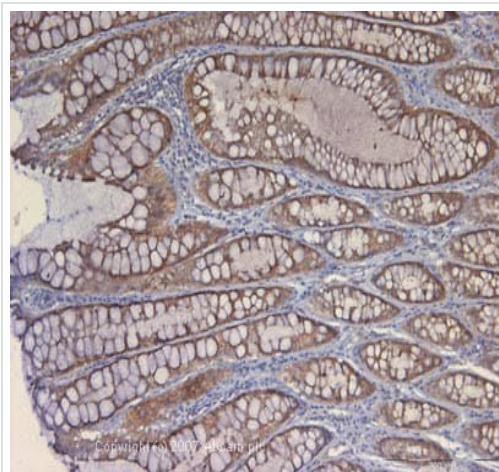
Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG at 1/10000 dilution

Performed under reducing conditions.

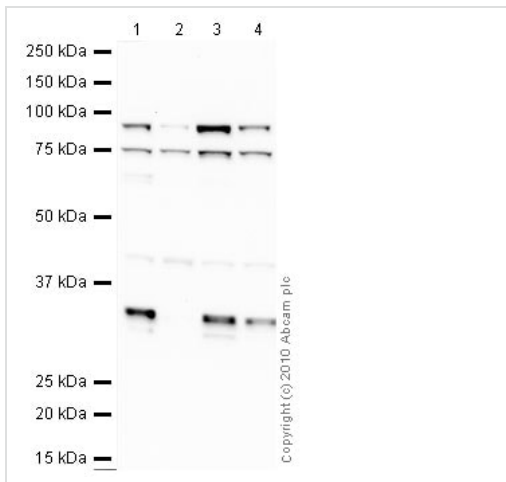
Predicted band size: 94 kDa

ab32197 gave a positive signal against the tagged partial recombinant protein which has an expected molecular weight of 37 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Axin 2 antibody (ab32197)

IHC image of ab32197 stained area of normal tissue in a human colorectal cancer FFPE section. Section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30 seconds at 125°C. Section was incubated with ab32197 at a dilution of 1:500 for 1h at room temperature and detected using an HRP conjugated polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western blot - Anti-Axin 2 antibody (ab32197)

All lanes : Anti-Axin 2 antibody (ab32197) at 1 µg/ml

Lane 1 : SW480 (Human colon adenocarcinoma cell line) Whole Cell Lysate

Lane 2 : Colon (Mouse) Tissue Lysate

Lane 3 : HCT 116 (Human Colorectal Carcinoma) Whole Cell Lysate

Lane 4 : LS147T (Colon cancer cells) (Human) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) ([ab65484](#)) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 94 kDa

Observed band size: 94 kDa

Additional bands at: 32 kDa, 75 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 16 minutes

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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 <https://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