

Product datasheet

Anti-PHLPP2 antibody - N-terminal ab153918

★★★★☆ [1 Abreviews](#) [2 Images](#)

Overview

Product name	Anti-PHLPP2 antibody - N-terminal
Description	Rabbit polyclonal to PHLPP2 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to a region within N terminal amino acids 13-234 of Human PHLPP2.
Positive control	Mouse brain whole cell lysate; A431 cells.
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. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 78.99% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab153918 in the following tested applications.

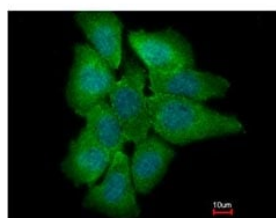
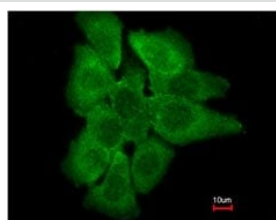
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 147 kDa.
ICC/IF	★★★★★ (1)	1/100 - 1/1000.

Target

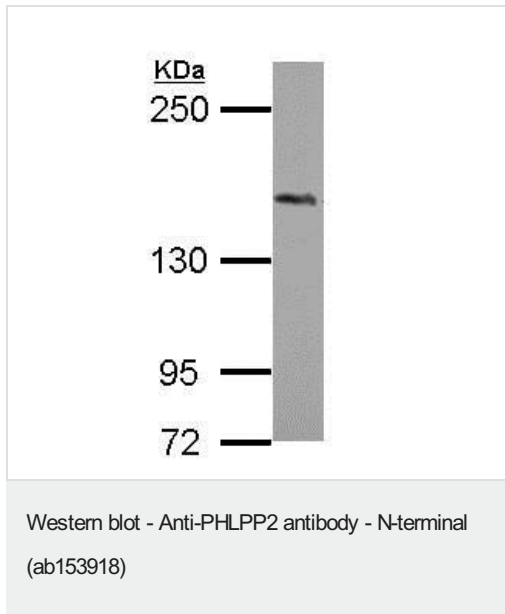
Function	Protein phosphatase that mediates dephosphorylation of 'Ser-473' of AKT1, 'Ser-660' of PRKCB isoform beta-II and 'Ser-657' of PRKCA. AKT1 regulates the balance between cell survival and apoptosis through a cascade that primarily alters the function of transcription factors that regulate pro- and antiapoptotic genes. Dephosphorylation of 'Ser-473' of AKT1 triggers apoptosis and decreases cell proliferation. Also controls the phosphorylation of AKT3. Dephosphorylation of PRKCA and PRKCB leads to their destabilization and degradation. Inhibits cancer cell proliferation and may act as a tumor suppressor.
Tissue specificity	In colorectal cancer tissue, expression is highest in the surface epithelium of normal colonic mucosa adjacent to the cancer tissue but is largely excluded from the crypt bases. Expression is lost or significantly decreased in 80% of tested tumors (at protein level).
Sequence similarities	Contains 22 LRR (leucine-rich) repeats. Contains 1 PH domain. Contains 1 PP2C-like domain.
Cellular localization	Cytoplasm. Membrane. Nucleus. In colorectal cancer tissue, expression is concentrated in the cytoplasm and nucleus.

Images



Immunofluorescent analysis of paraformaldehyde-fixed A431 cells labeling PHLPP2 with ab153918 at 1/500 dilution. Lower image is co-stained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-PHLPP2 antibody - N-terminal (ab153918)



Anti-PHLPP2 antibody - N-terminal (ab153918) at 1/2000 dilution +
Mouse brain whole cell lysate at 50 µg

Predicted band size: 147 kDa

5% SDS PAGE

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

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- Response to your inquiry within 24 hours

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