Anti-VPS34 antibody - N-terminal ab227861

Overview

Product name: Anti-VPS34 antibody - N-terminal
Description: Rabbit polyclonal to VPS34 - N-terminal
Host species: Rabbit
Tested applications: Suitable for: WB, IP
Species reactivity: Reacts with: Human
Predicted to work with: Mouse, Rat, Cow, Dog, Pig, Xenopus laevis
Immunogen: Recombinant fragment within Human VPS34 (N terminal). The exact sequence is proprietary.
Positive control: WB: HEK-293T, A431, HeLa, HepG2, U-87 MG, SK-N-SH, IMR32 and SK-N-AS whole cell lysates; Wild-type and VPS34 transfected HEK-293T whole cell extracts. IP: HeLa whole cell extract.

General notes:
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.

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

Properties

Form: Liquid
Storage buffer: pH: 7.00
Preservative: 0.025% Proclin 300
 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab227861 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IP</td>
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Target

Function
Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for the abscission step in cytokinesis.

Tissue specificity
Ubiquitously expressed, with a highest expression in skeletal muscle.

Sequence similarities
Belongs to the PI3/PI4-kinase family.
Contains 1 PI3K/PI4K domain.

Cellular localization
Midbody.

Images

All lanes: Anti-VPS34 antibody - N-terminal (ab227861) at 1/1000 dilution

Lane 1: Non-transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

Lane 2: VPS34 shRNA transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

Lysates/proteins at 30 µg per lane.

Predicted band size: 102 kDa

7.5% SDS-PAGE gel.
**Western blot - Anti-VPS34 antibody - N-terminal (ab227861)**

All lanes: Anti-VPS34 antibody - N-terminal (ab227861) at 1/1000 dilution

Lane 1: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2: A431 (human epidermoid carcinoma cell line) whole cell lysate

Lane 3: HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 4: HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 102 kDa

7.5% SDS-PAGE gel.

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All lanes: Anti-VPS34 antibody - N-terminal (ab227861) at 1/1000 dilution

Lane 1: U-87 MG (human glioblastoma-astrocytoma epithelial cell line) whole cell lysate

Lane 2: SK-N-SH (human neuroblastoma cell line) whole cell lysate

Lane 3: IMR32 whole cell lysate

Lane 4: SK-N-AS whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 102 kDa

7.5% SDS-PAGE gel.
All lanes: Anti-VPS34 antibody - N-terminal (ab227861) at 1/5000 dilution

Lane 1: Non-transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2: VPS34 transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 102 kDa

5% SDS-PAGE gel.

VPS34 was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract with 5 µg of ab227861. Western blot was performed from the immunoprecipitate using ab227861. Anti-Rabbit IgG was used as a secondary reagent.

Lane 1: HeLa whole cell extract.

Lane 2: Control IgG IP in HeLa whole cell extract.

Lane 3: ab227861 IP in HeLa whole cell extract.

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

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