




Product datasheet

Anti-FIP200 antibody ab176816

[6 References](#) [3 Images](#)

Overview

Product name	Anti-FIP200 antibody
Description	Rabbit polyclonal to FIP200
Host species	Rabbit
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Common marmoset, Orangutan 
Immunogen	Synthetic peptide within Human FIP200 aa 1544-1594 (C terminal). The exact sequence is proprietary. NP_055596.3 Sequence: EGASGAS RRPWVLGKVM EKEYCQAKKA QNRFKVPLGT KFYRVKAVSW NKKV Database link: Q8TDY2  Run BLAST with  Run BLAST with
Positive control	HeLa, 293T and TCMK1 whole cell lysates.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide

	Constituents: 99% Tris buffered saline, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	ab176816 was affinity purified using an epitope specific to FIP200 immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

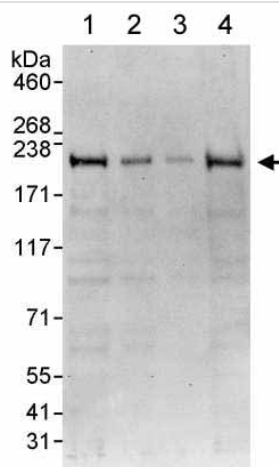
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab176816 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at 2-5 µg/mg of lysate.
WB		1/2000 - 1/10000. Predicted molecular weight: 183 kDa.

Target

Function	Implicated in the regulation of RB1 expression. Functions as a DNA-binding transcription factor. Is a potent regulator of the RB1 pathway and a mediator that plays a crucial role in muscular differentiation. Expression is, thus, a prerequisite for myogenic differentiation. Involved in autophagy. Required for autophagosome formation (By similarity). Inhibits PTK2/FAK1 and PTK2B/PYK2 activity and activation of downstream signaling pathways.
Tissue specificity	Expression levels correlated closely with those of RB1 in cancer cell lines as well as in various normal human tissues. Abundantly expressed in human musculoskeletal and cultured osteosarcoma cells.
Developmental stage	Expression was difficult to detect in immature proliferating chondroblasts or myogenic cells in embryos, but became obvious and prominent concomitantly with the maturation of osteocytes, chondrocytes, and skeletal muscle cells. Expression in these musculoskeletal cells increased with RB1 expression, which is linked to the terminal differentiation of many tissues and cells. The introduction of the wild-type protein decreased the formation of macroscopic colonies in a cell growth assay.
Cellular localization	Nucleus. Cytoplasm > cytosol. Preautophagosomal structure. Under starvation conditions, is localized to punctate structures primarily representing the isolation membrane that sequesters a portion of the cytoplasm resulting in the formation of an autophagosome.

Images



Western blot - Anti-FIP200 antibody (ab176816)

All lanes : Anti-FIP200 antibody (ab176816) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysates at 50 µg

Lane 2 : HeLa whole cell lysates at 15 µg

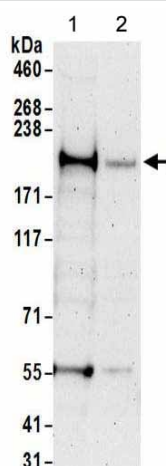
Lane 3 : HeLa whole cell lysates at 5 µg

Lane 4 : 293T whole cell lysates at 50 µg

Developed using the ECL technique.

Predicted band size: 183 kDa

Exposure time: 30 seconds



Western blot - Anti-FIP200 antibody (ab176816)

All lanes : Anti-FIP200 antibody (ab176816) at 0.2 µg/ml

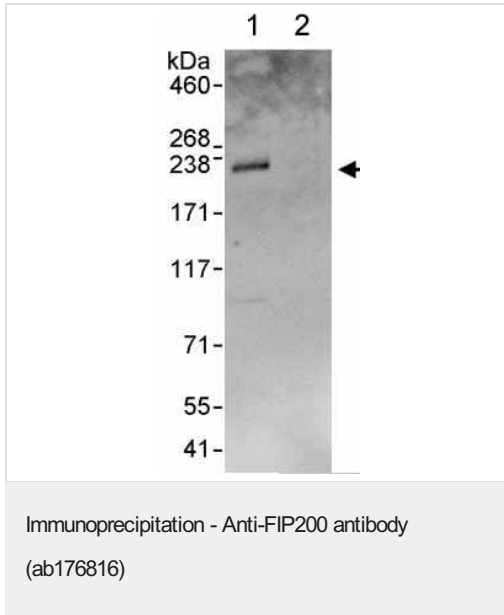
Lane 1 : TCMK1 whole cell lysates at 50 µg

Lane 2 : TCMK1 whole cell lysates at 15 µg

Developed using the ECL technique.

Predicted band size: 183 kDa

Exposure time: 3 minutes



ab176816 at 0.1 µg/ml detecting FIP200 in HeLa whole cell lysate by WB following IP.

Lane 1: ab176816 at 3µg/mg of lysate

Lane 2: Control IgG.

In each case, 1 mg of lysate was used for IP and 20% of the IP was loaded.

Detection: Chemiluminescence with an exposure time of 30 seconds.

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