



Product datasheet

Anti-TAZ antibody ab224239

★☆☆☆☆ [1 Abreviews](#) [16 References](#) [8 Images](#)

Overview

Product name	Anti-TAZ antibody
Description	Rabbit polyclonal to TAZ
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human TAZ aa 1-200. Database link: Q9GZV5
	 Run BLAST with  Run BLAST with
Positive control	WB: NIH/3T3; human kidney tissue lysate. IHC-P: Human renal cancer, placenta, kidney and colon tissues. ICC/IF: U-251 MG 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. 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: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab224239 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		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 44 kDa.
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★☆☆☆☆ (1)	Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

Function

Transcriptional coactivator which acts as a downstream regulatory target in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. WWTR1 enhances PAX8 and NKX2-1/TTF1-dependent gene activation. Regulates the nuclear accumulation of SMADS and has a key role in coupling them to the transcriptional machinery such as the mediator complex. Regulates embryonic stem-cell self-renewal, promotes cell proliferation and epithelial-mesenchymal transition.

Tissue specificity

Highly expressed in kidney, heart, placenta and lung. Expressed in the thyroid tissue.

Sequence similarities

Contains 1 WW domain.

Domain

The PDZ-binding motif is essential for stimulated gene transcription. It localizes the protein into both punctate nuclear foci and plasma membrane-associated complexes.
Binds to transcription factors via its WW domain.

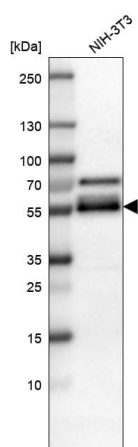
Post-translational modifications

Phosphorylated by LATS2 and STK3/MST2. Phosphorylation by LATS2 results in creation of 14-3-3 binding sites, retention in the cytoplasm, and functional inactivation. Phosphorylation results in the inhibition of transcriptional coactivation through YWHAZ-mediated nuclear export.

Cellular localization

Nucleus. Cytoplasm. Concentrates along specific portions of the plasma membrane, and accumulates in punctate nuclear bodies. When phosphorylated, is retained in cytoplasm by YWHAZ. Can be retained in the nucleus by MED15.

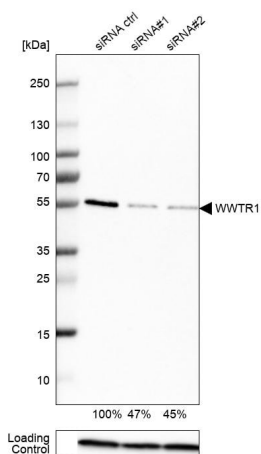
Images



Western blot - Anti-TAZ antibody (ab224239)

Anti-TAZ antibody (ab224239) at 1/250 dilution + NIH/3T3 (mouse embryonic fibroblast cell line) cell lysate

Predicted band size: 44 kDa



Western blot - Anti-TAZ antibody (ab224239)

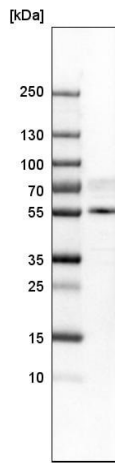
All lanes : Anti-TAZ antibody (ab224239)

Lane 1 : EFO-21 cells transfected with control siRNA

Lane 2 : EFO-21 cells transfected with target specific siRNA probe 1

Lane 3 : EFO-21 cells transfected with target specific siRNA probe 2

Predicted band size: 44 kDa

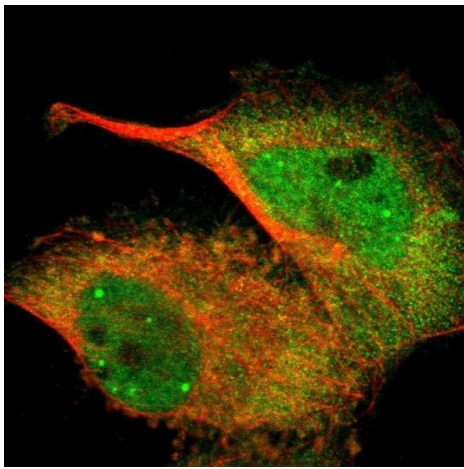


Western blot - Anti-TAZ antibody (ab224239)

Anti-TAZ antibody (ab224239) at 1/250 dilution + Human kidney tissue lysate

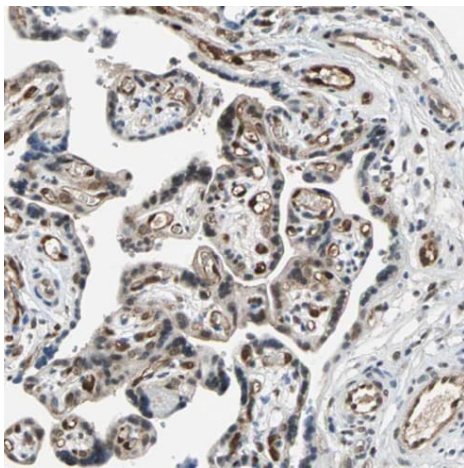
Developed using the ECL technique.

Predicted band size: 44 kDa



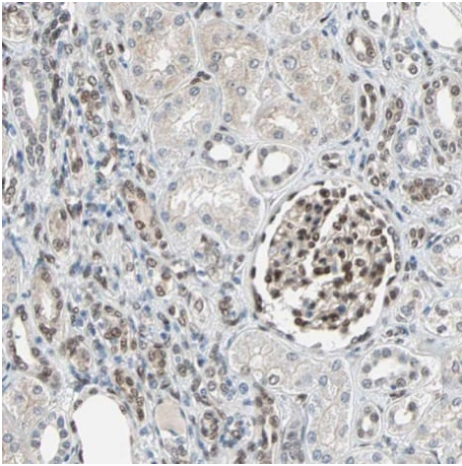
Immunocytochemistry/ Immunofluorescence - Anti-TAZ antibody (ab224239)

PFA-fixed, Triton X-100 permeabilized U-251 MG (human brain glioma cell line) cells stained for TAZ (green) using ab224239 at 4 µg/ml in ICC/IF.



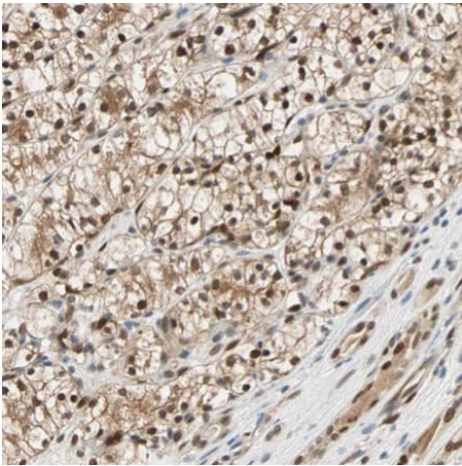
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TAZ antibody (ab224239)

Paraffin-embedded human placenta tissue stained for TAZ using ab224239 at 1/50 dilution in immunohistochemical analysis.



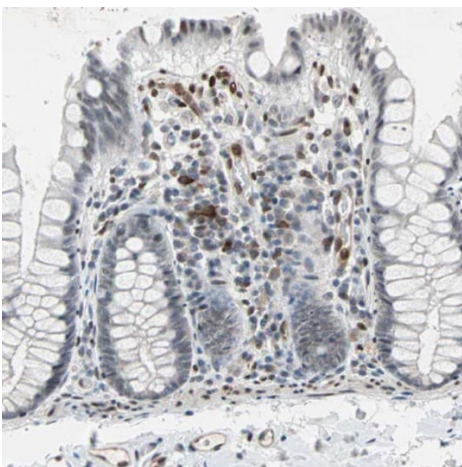
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TAZ antibody (ab224239)

Paraffin-embedded human kidney tissue stained for TAZ using ab224239 at 1/50 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TAZ antibody (ab224239)

Paraffin-embedded human renal cancer tissue stained for TAZ using ab224239 at 1/50 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TAZ antibody (ab224239)

Paraffin-embedded human colon tissue stained for TAZ using ab224239 at 1/50 dilution in immunohistochemical analysis.

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

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