

Product datasheet

Anti-TAZ antibody ab118373

★☆☆☆☆ 1 Abreviews 2 References 3 Images

Overview

Product name	Anti-TAZ antibody
Description	Mouse monoclonal to TAZ
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, Sandwich ELISA, ELISA
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to amino acids 201-300 of Human TAZ with a proprietary tag (NP_056287).
Positive control	Human placenta tissue.

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: 7.20 Constituent: 99% PBS
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab118373 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)	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 44 kDa.

Application	Abreviews	Notes
IHC-P		Use a concentration of 3 µg/ml. Antigen retrieval is not essential but may optimise staining.
Sandwich ELISA		Use a concentration of 10 µg/ml.
ELISA		Use at an assay dependent concentration.

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.

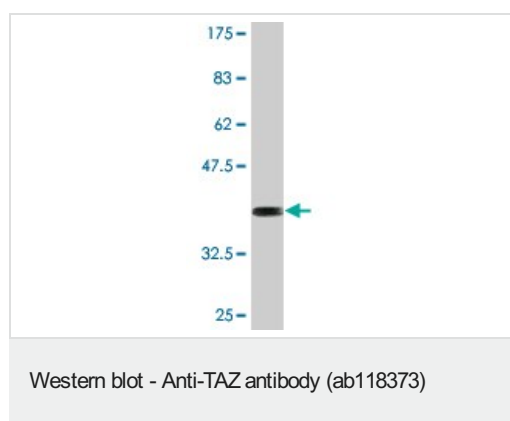
Post-translational modifications

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

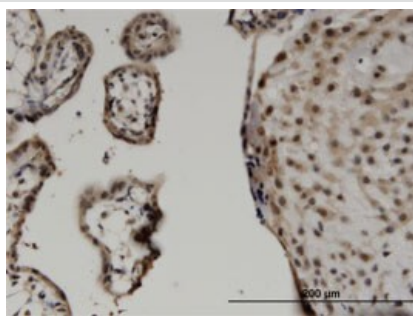


Anti-TAZ antibody (ab118373) at 5 µg/ml + Recombinant immunogen at 0.2 µg

Predicted band size: 44 kDa

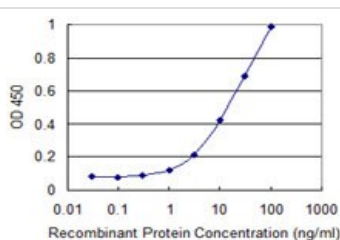
Western blot against tagged recombinant immunogen using ab118373 antibody at 5µg/ml dilution. Predicted band size of

immunogen is 37.11kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TAZ antibody (ab118373)

ab118272 at 3μg/ml staining TAZ in Formalin-fixed, Paraffin-embedded Human placenta tissue by Immunohistochemistry.



Detection limit for recombinant tagged TAZ is 0.3 ng/ml as a capture antibody.

Sandwich ELISA - Anti-TAZ antibody (ab118373)

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