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TWA1 Antibody
Catalog # ASC10960

Specification

TWA1 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q9NWU2
Other Accession	NP_060366, 8923557
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**TWA1 antibody can be used for detection of TWA1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

TWA1 Antibody - Additional Information

Gene ID	**54994**

Target/Specificity
C20orf11;

Reconstitution & Storage
TWA1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
TWA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TWA1 Antibody - Protein Information

Name GID8

Function
Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed:29911972). Acts as a positive regulator of Wnt signaling pathway by promoting beta-catenin (CTNNB1) nuclear accumulation (PubMed:28829046).

Cellular Location
Cytoplasm. Nucleus. Note=Localizes in the cytoplasm in the absence of Wnt stimulation and in the nucleus in the presence of Wnt stimulation.

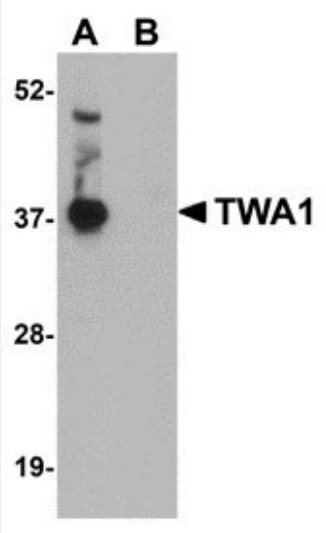
Tissue Location
Up-regulated in colorectal cancer tissues (at protein level).

TWA1 Antibody - Protocols

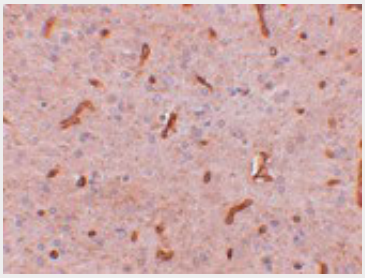
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TWA1 Antibody - Images



Western blot analysis of TWA1 in human brain tissue lysate with TWA1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of TWA1 in rat brain tissue with TWA1 antibody at 2.5 µg/mL.

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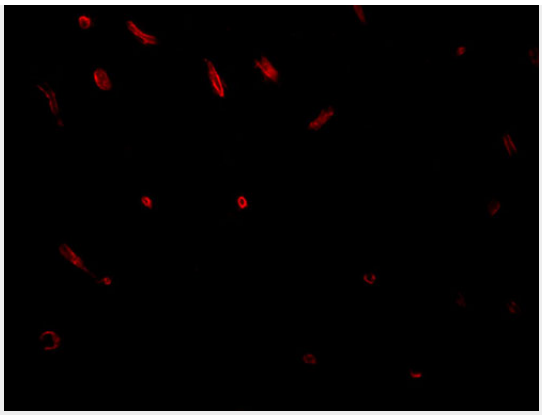

Immunofluorescence of TWA1 in rat brain tissue with TWA1 antibody at 20 µg/mL.

TWA1 Antibody - Background

TWA1 Antibody: TWA1 was identified through a two hybrid-associated protein screen with RanBPM. TWA1 is well conserved through evolution and is localized within the nucleus. It interacts with RanBP9 and comprises a protein complex with RanBPM and Muskelin. TWA1 was found to possess the LisH-CTLH motif which is detected in proteins involved in microtubule dynamics, cell migration, nucleokinesis and chromosome segregation. These functions overlap with functions suggested for the RanGTPase cycle. Recent findings suggested that there is an as yet uncovered function of the RanGTPase cycle.

TWA1 Antibody - References

Umeda M, Nishitani H, and Nishimoto T. A novel nuclear protein, Twa1, and Muskelin comprise a complex with RanBPM. Gene2003; 303:47-54.
Kobayashi N, Yang J, Ueda A, et al. RanBPM, Muskelin, p48EMLP, p44CTLH, and the armadillo-repeat proteins ARMC8alpha and ARMC8beta are components of the CTLH complex. Gene2007; 396:236-47.