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# TCTN2 Antibody

Catalog # ASC11162

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q96GX1 |
| **Other Accession** | NP_079085, 31377681 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Calculated MW** | 76871 |
| **Concentration (mg/ml)** | 1 mg/mL |
| **Conjugate** | Unconjugated |
| **Application Notes** | TCTN2 antibody can be used for detection of TCTN2 by Western blot at 1 g/mL. |

## Additional Information

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| **Gene ID** | 79867 |
| **Other Names** | Tectonic-2, TCTN2, C12orf38, TECT2 |
| **Target/Specificity** | TCTN2; |
| **Reconstitution & Storage** | TCTN2 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** | TCTN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | TCTN2 |
| **Synonyms** | C12orf38, TECT2 |
| **Function** | Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Required for hedgehog signaling transduction (By similarity). |
| **Cellular Location** | Membrane; Single-pass type I membrane protein. Cytoplasm, cytoskeleton, cilium basal body. Note=Localizes at the transition zone, a region between the basal body and the ciliary axoneme. |

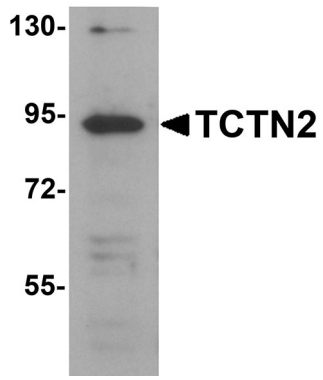
## Background

TCTN2 Antibody: TCTN2 is a member of the Tectonic protein family, a group of evolutionarily conserved secreted and transmembrane proteins that regulate the Hedgehog (Hh)-mediated patterning of the neural tube. While the expression pattern and function of TCTN2 is not known, it is 49% similar to TCTN1. TCTN1 is expressed during embryonic development in regions that participate in Hh signaling, beginning in the gastrulation stages in the ventral node. Mice expressing mutant TCTN1 die between E13.5 and E16.5 and display holoprosencephaly, a defect associated with reduced Hh signaling, indicating the role of TCTN1 as an Hh activator. At later stages in development, TCTN1 is thought to also act as a repressor on the Hh pathway in the anterior and posterior neural tube.

## References

Reiter JF and Skarnes WC. Tectonic, a novel regulator of the Hedgehog pathwy required for both activation and inhibition. Genes Dev.2006; 20:22-7.

## Images




Western blot analysis of TCTN2 in SK-N-SH cell lysate with TCTN2 antibody at 1 µg/mL.