10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TEM4 Antibody
Catalog # ASC10599

Specification

TEM4 Antibody - Product Information

Application	**IF**
Primary Accession	Q96PE2
Other Accession	Q96PE2, 9828
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**TEM4 antibody can be used for detection of TEM4 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

TEM4 Antibody - Additional Information

Gene ID **9828**

Target/Specificity
TEM4 antibody was raised against a 18 amino acid synthetic peptide near the center of human TEM4.

The immunogen is located within amino acids 910 - 960 of TEM4.

Reconstitution & Storage
TEM4 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
TEM4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TEM4 Antibody - Protein Information

Name ARHGEF17

Synonyms KIAA0337, TEM4

Function
Acts as a guanine nucleotide exchange factor (GEF) for RhoA GTPases.

Tissue Location
Highly expressed in the heart.

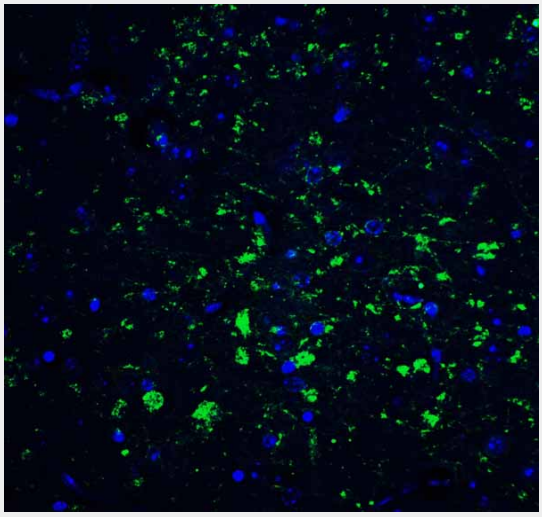
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TEM4 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

TEM4 Antibody - Images



Immunofluorescence of CDNF in mouse brain tissue with CDNF Antibodyat 20 µg/mL.

TEM4 Antibody - Background

TEM4 Antibody: Rho GTPases, which are activated by specific guanine-nucleotide exchange factors (GEFs), play pivotal roles in several cellular functions. TEM4, encoding a protein containing 1510 amino acids, contains a RhoGEF-specific Dbl homology (DH) domain but lacks their typical pleckstrin homology domain. TEM4 is a Rho-specific GEF with novel structural and regulatory properties and predominant expression in the heart. It couples tyrosine kinase signals with the activation of the rho/rac GTPases, thus leading to cell differentiation and/or proliferation. Elevated levels of TEM4, TEM5, TEM6, TEM7 and TEM7R were also raised in breast cancer tissues. TEM4 could also prove to be useful targets therapeutically.

TEM4 Antibody - References

Ruemenapp U, Freichel-Blomquist A, Wittinghofer B, et al. A mammalian Rho-specific guanine-nucleotide exchange factor (p164-RhoGEF) without a pleckstrin homology domain. Biochem. J.2002; 366:721-8.
Carson-Walter EB, Watkins DN, Nanda A, et al. Cell surface tumor endothelial markers are conserved in mice and humans. Cancer Res.2001; 61:6649-55.
Davies G, Cunnick GH, Mansel RE, et al. Levels of expression of endothelial markers specific to tumour-associated endothelial cells and their correlation with prognosis in patients with breast cancer. Clinical & Experimental Metastasis2004; 21:31-7.
Nanda A and St Croix B. Tumor endothelial markers: new targets for cancer therapy. Curr. Opin.

Oncol.2004; 16:44-9.