

TEM4 Antibody

Catalog # ASC10599

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q96PE2
Other Accession	Q96PE2 , 74724250
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	221673
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TEM4 antibody can be used for detection of TEM4 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	9828
Other Names	Rho guanine nucleotide exchange factor 17, 164 kDa Rho-specific guanine-nucleotide exchange factor, p164-RhoGEF, p164RhoGEF, Tumor endothelial marker 4, ARHGEF17, KIAA0337, TEM4
Target/Specificity	ARHGEF17;
Reconstitution & Storage	TEM4 antibody can be stored at 4°C for three months and -20°C, 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.

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.

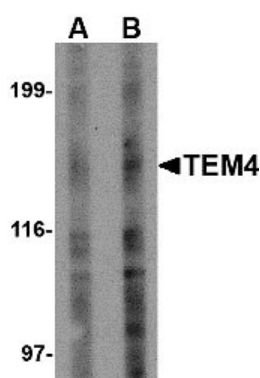
Background

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.

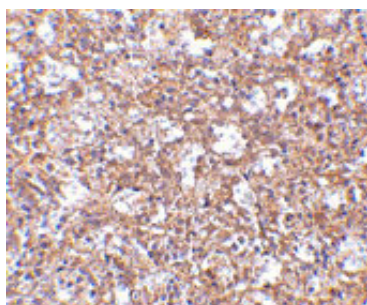
References

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 Metastasis*2004; 21:31-7.
Nanda A and St Croix B. Tumor endothelial markers: new targets for cancer therapy. *Curr. Opin. Oncol.*2004; 16:44-9.

Images



Western blot analysis of TEM4 in Jurkat Cell lysate with TEM4 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of TEM4 in human spleen tissue with TEM4 antibody at 2.5 $\mu\text{g/mL}$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.