

TMEM88 Antibody

Catalog # ASC11345

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6PEY1
Other Accession	EAW90125 , 44662813
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	17251
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TMEM88 antibody can be used for detection of TMEM88 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.

Additional Information

Gene ID	92162
Other Names	Transmembrane protein 88, TMEM88, TMEM88A
Target/Specificity	TMEM88; At least two isoforms of TMEM88 are known to exist; this antibody will recognize both isoforms.
Reconstitution & Storage	TMEM88 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	TMEM88 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TMEM88
Synonyms	TMEM88A
Function	Inhibits the Wnt/beta-catenin signaling pathway. Crucial for heart development and acts downstream of GATA factors in the pre- cardiac mesoderm to specify lineage commitment of cardiomyocyte development.
Cellular Location	Cell membrane; Multi-pass membrane protein

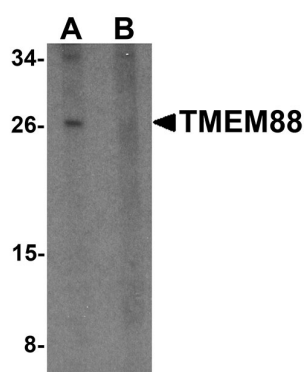
Background

TMEM88 Antibody: Transmembrane protein 88 (TMEM88) is a two-transmembrane-type protein whose C-terminal tail has been shown to bind the PDZ domain of Dishevelled (Dvl), one of the key components in Wnt signaling pathways. TMEM88 attenuated the Wnt/beta-catenin signaling induced by Wnt-1 ligand in a dose-dependent manner and knockdown of TMEM88 by RNAi increased Wnt activity, suggesting that TMEM88 plays a role in regulating Wnt signaling in a context-dependent manner.

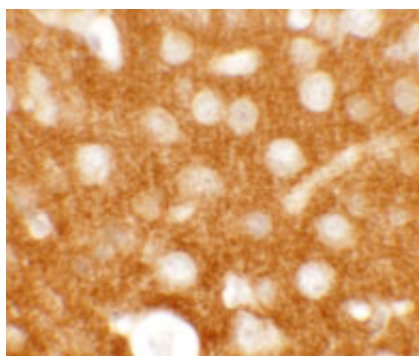
References

Lee HJ, Finklestein D, Li X, et al. Identification of transmembrane protein 88 (TMEM88) as a dishevelled-binding protein. *J. Biol. Chem.* 2010; 285:41549-56.

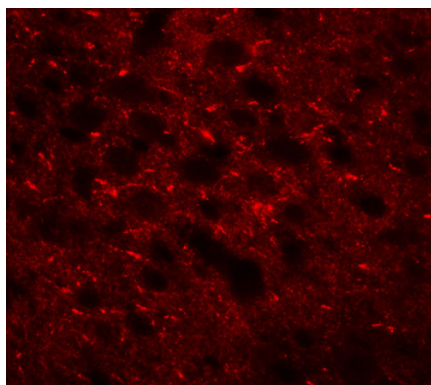
Images



Western blot analysis of TMEM88 in human brain tissue lysate with TMEM88 antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of TMEM88 in mouse brain tissue with TMEM88 antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of TMEM88 in mouse brain tissue with TMEM88 antibody at 20 $\mu\text{g/mL}$.