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TSHZ1 Antibody

Catalog # ASC11450

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q6ZSZ6
Other Accession	NP_005777, 38201677
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	117916
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TSHZ1 antibody can be used for detection of TSHZ1 by Western blot at 1 g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 g/mL. For immunofluorescence start at 2.5 g/mL.

Additional Information

Gene ID	10194
Other Names	Teashirt homolog 1, Antigen NY-CO-33, Serologically defined colon cancer antigen 33, TSHZ1, SDCCAG33, TSH1
Target/Specificity	TSHZ1;
Reconstitution & Storage	TSHZ1 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	TSHZ1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TSHZ1
Synonyms	SDCCAG33, TSH1
Function	Probable transcriptional regulator involved in developmental processes. May act as a transcriptional repressor (Potential).
Cellular Location	Nucleus.
Tissue Location	Expressed in brain; strongly reduced in post-mortem elderly subjects with Alzheimer disease.

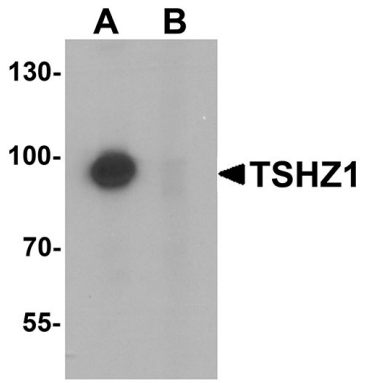
Background

TSHZ1 Antibody: The Teashirt zinc finger homeobox (TSHZ) family comprise a family of evolutionarily conserved transcription factors that, in Drosophila, are active in specific body parts for patterning, but whose function in vertebrates is less clear. TSHZ1 has been found to be required for axial skeleton, soft palate and middle ear development in mice and may be involved in a common pathway with the Hox genes. Both TSHZ1 and the related protein TSHZ3 have been found to interact with FE65, an adapter protein that binds to the amyloid protein precursor (APP) in neurons. Together with SET, a component of the inhibitor of acetyl transferase, and histone deacetylases, these proteins formed a gene-silencing complex whose target includes caspase-4.

References

Caubit X, Core N, Boned A, et al. Vertebrate orthologues of the Drosophila region-specific patterning gene teashirt. Mech. Dev. 2000; 91:445-8.
Santos JS, Fonseca NA, Vieira CP, et al. Phylogeny of the Teashirt-related zinc finger (tshz) gene family and analysis of the developmental expression of tshz2 and tshz3 in the zebrafish. Dev. Dyn. 2010; 239:1010-8.
Core N, Caubit X, Metchat A, et al. Tshz1 is required for axial skeleton, soft palate and middle ear development in mice. Dev. Biol. 2007; 308:407-20
Kajiwara Y, Akram A, Katsel P, et al. FE65 binds teashirt, inhibiting expression of the primate-specific caspase-4. PLoS One 2009; 4:e5071.

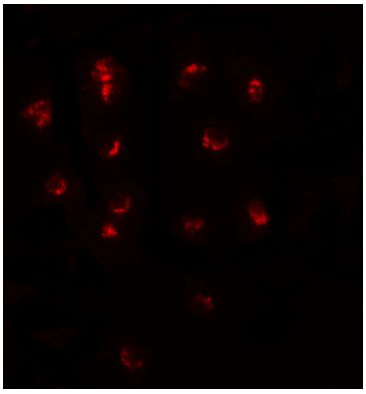
Images



Western blot analysis of TSHZ1 in A-20 cell lysate with TSHZ1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

Immunocytochemistry of TSHZ1 in A20 cells with TSHZ1 antibody at 2.5 µg/mL.

Immunofluorescence of TSHZ1 in A20 cells with TSHZ1 antibody at 20 µg/mL.



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