

TSHZ3 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS15604**Specification**

TSHZ3 Antibody (N-Terminus) - Product Information

Application	IHC, IF, WB
Primary Accession	Q63HK5
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	119kDa KDa

TSHZ3 Antibody (N-Terminus) - Additional Information**Gene ID** 57616**Other Names**

Teashirt homolog 3, Zinc finger protein 537, TSHZ3, KIAA1474, TSH3, ZNF537

Target/Specificity

Human TSHZ3.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

TSHZ3 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

TSHZ3 Antibody (N-Terminus) - Protein Information**Name** TSHZ3**Synonyms** KIAA1474, TSH3, ZNF537**Function**

Transcriptional regulator involved in developmental processes. Functions in association with APBB1, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. TSHZ3-mediated transcription repression involves the recruitment of histone deacetylases HDAC1 and HDAC2. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s) (PubMed:19343227). Regulates the development of neurons involved in both respiratory rhythm and airflow control. Promotes maintenance of nucleus ambiguus (nA) motoneurons, which govern upper airway function, and establishes a respiratory rhythm generator (RRG) activity compatible with survival at birth. Involved in the differentiation of the proximal uretic smooth muscle cells during developmental processes. Involved in the up-regulation of myocardin, that directs the expression of smooth muscle cells in the proximal ureter (By

similarity). Involved in the modulation of glutamatergic synaptic transmission and long-term synaptic potentiation (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:19343227}. Cell projection, growth cone. Note=Colocalizes with APBB1 in axonal growth cone (By similarity). Colocalizes with APBB1 in the nucleus.

Tissue Location

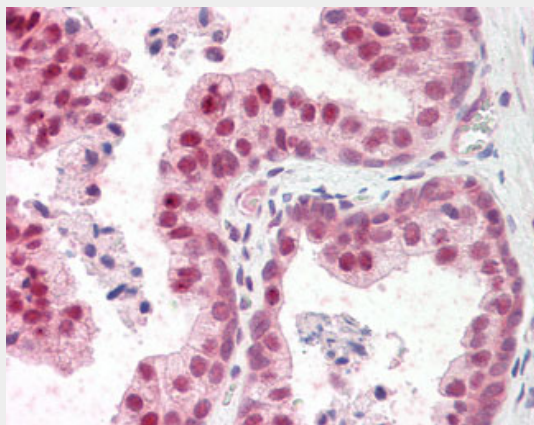
Expressed in brain; strongly reduced in post-mortem elderly subjects with Alzheimer disease (PubMed:18776146, PubMed:19343227). Expressed in the fetal neocortex (PubMed:27668656)

TSHZ3 Antibody (N-Terminus) - Protocols

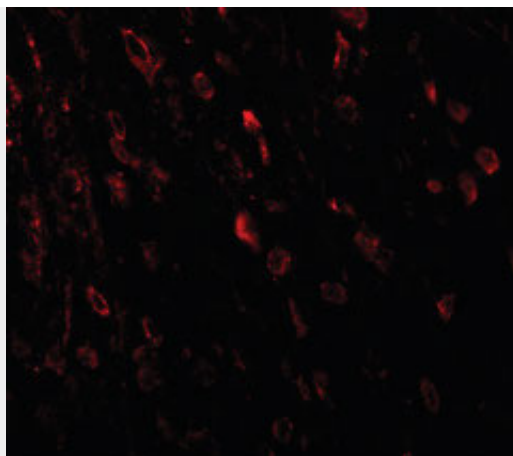
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

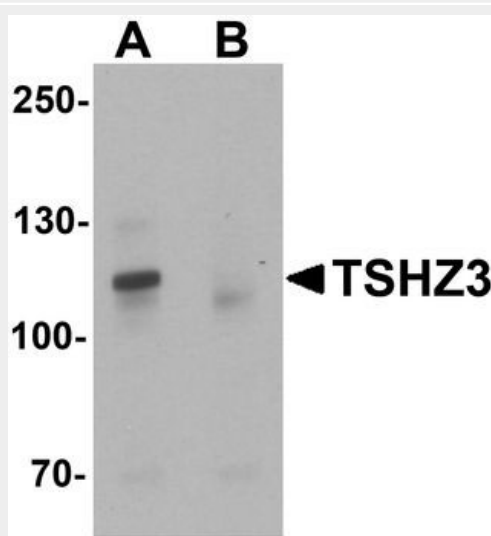
TSHZ3 Antibody (N-Terminus) - Images



Anti-TSHZ3 antibody IHC staining of human prostate.



Immunofluorescence of TSHZ3 in mouse brain tissue with TSHZ3 antibody at 20 ug/ml.



Western blot analysis of TSHZ3 in mouse brain tissue lysate with TSHZ3 antibody at 1 ug/ml in...

TSHZ3 Antibody (N-Terminus) - Background

Transcriptional regulator involved in developmental processes. Function in association with APBB1, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. TSHZ3-mediated transcription repression involves the recruitment of histone deacetylases HDAC1 and HDAC2. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s). Regulates the development of neurons involved in both respiratory rhythm and airflow control. Promotes maintenance of nucleus ambiguus (nA) motoneurons, which govern upper airway function, and establishes a respiratory rhythm generator (RRG) activity compatible with survival at birth. Involved in the differentiation of the proximal uretic smooth muscle cells during developmental processes. Involved in the up- regulation of myocardin, that directs the expression of smooth muscle cells in the proximal ureter.

TSHZ3 Antibody (N-Terminus) - References

Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Nagase T.,et al.DNA Res. 7:143-150(2000).
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Caubit X.,et al.Development 135:3301-3310(2008).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).