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TLE6 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13485a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9H808
Other Accession	NP_079036.1, NP_001137458.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33374
Calculated MW	63473
Antigen Region	30-58

Additional Information

Gene ID	79816
Other Names	Transducin-like enhancer protein 6, TLE6
Target/Specificity	This TLE6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-58 amino acids from the N-terminal region of human TLE6.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TLE6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TLE6 {ECO:0000303|PubMed:26537248, ECO:0000312|HGNC:HGNC:30788}
Function	Component of the subcortical maternal complex (SCMC), a multiprotein complex that plays a key role in early embryonic development (PubMed:26537248). The SCMC complex is a structural constituent of cytoplasmic lattices, which consist in fibrous structures found in the

cytoplasm of oocytes and preimplantation embryos (PubMed:41118754). They are required to store maternal proteins critical for embryonic development, such as ribosomal proteins, cytoskeletal tubulins and proteins controlling epigenetic reprogramming of the preimplantation embryo, in a poised but restrained state, regulating their availability for early embryonic development (By similarity). Cytoplasmic lattices also tightly control ubiquitination during the oocyte-to-embryo transition by trapping E3 ubiquitin-protein ligase UHRF1 in a compact autoinhibited conformation and maintaining SCF ubiquitin ligase complexes inactive (By similarity). TLE6 is also required for spermatogenesis: regulates spermatogonia proliferation and cell cycle progression, potentially via regulation of cell cycle regulatory genes such as; CEBPB, CEBPA, CSF3, PCNA, and CDK4 (By similarity). Suppresses FOXG1/BF-1-mediated transcriptional repression by inhibiting interaction of the transcriptional corepressor TLE1 with FOXG1 which promotes cortical neuron differentiation (By similarity). Acts as a transcriptional corepressor of NFATC1-mediated gene expression by contributing to PAX6-mediated repression (By similarity).

Cellular Location

Cytoplasm. Nucleus {ECO:0000250|UniProtKB:Q9WVB3}. Note=Core component of cytoplasmic lattices in oocytes. [Isoform 2]: Cytoplasm

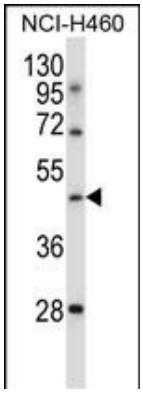
Background

As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions (By similarity).

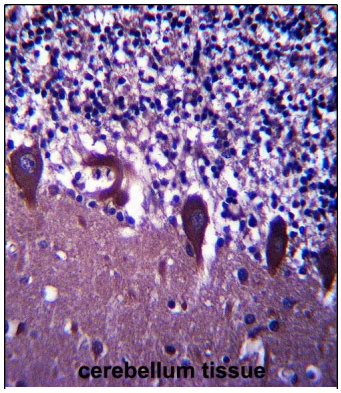
References

Chen, P.C., et al. PLoS Genet. 4 (6), E1000092 (2008) :
Dang, J., et al. Mol. Cell. Biol. 21(17):5935-5945(2001)

Images



TLE6 Antibody (N-term) (Cat. #AP13485a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the TLE6 antibody detected the TLE6 protein (arrow).



TLE6 Antibody (N-term) (Cat. #AP13485a)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TLE6 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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