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ZIC1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16034a

Product Information

Application	WB, E
Primary Accession	Q15915
Other Accession	P46684, NP_003403.2
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35246
Calculated MW	48309
Antigen Region	6-34

Additional Information

Gene ID	7545
Other Names	Zinc finger protein ZIC 1, Zinc finger protein 201, Zinc finger protein of the cerebellum 1, ZIC1, ZIC, ZNF201
Target/Specificity	This ZIC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-34 amino acids from the N-terminal region of human ZIC1.
Dilution	WB~~1:1000 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	ZIC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZIC1
Synonyms	ZIC, ZNF201

Function	Acts as a transcriptional activator. Involved in neurogenesis. Plays important roles in the early stage of organogenesis of the CNS, as well as during dorsal spinal cord development and maturation of the cerebellum. Involved in the spatial distribution of mossy fiber (MF) neurons within the pontine gray nucleus (PGN). Plays a role in the regulation of MF axon pathway choice. Promotes MF migration towards ipsilaterally-located cerebellar territories. May have a role in shear flow mechanotransduction in osteocytes. Retains nuclear GLI1 and GLI3 in the cytoplasm. Binds to the minimal GLI-consensus sequence 5'-TGGGTGGTC-3' (By similarity).
Cellular Location	Nucleus. Cytoplasm. Note=Localizes in the cytoplasm in presence of MDFIC overexpression.
Tissue Location	CNS. A high level expression is seen in the cerebellum. Detected in the nuclei of the cerebellar granule cell lineage from the progenitor cells of the external germinal layer to the postmigrated cells of the internal granular layer. Detected in medulloblastoma (26/29 cases), but not present in all other tumors examined.

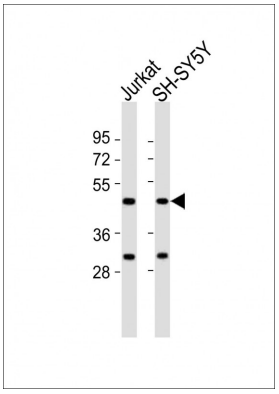
Background

This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. Members of this family are important during development. Aberrant expression of this gene is seen in medulloblastoma, a childhood brain tumor. This gene is closely linked to the gene encoding zinc finger protein of the cerebellum 4, a related family member on chromosome 3. This gene encodes a transcription factor that can bind and transactivate the apolipoprotein E gene.

References

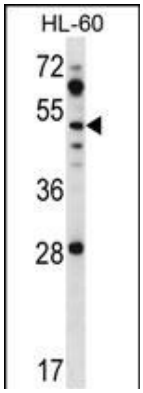
Brill, E., et al. Cancer Res. 70(17):6891-6901(2010)
Wang, L.J., et al. Biochem. Biophys. Res. Commun. 379(4):959-963(2009)
Baranzini, S.E., et al. Hum. Mol. Genet. 18(4):767-778(2009)
Arora, A., et al. RNA 14(7):1290-1296(2008)
Pourebrahim, R., et al. FEBS Lett. 581(26):5122-5126(2007)

Images



All lanes : Anti-ZIC1 Antibody (N-term) at 1:2000 dilution Lane 1: Jurkat whole cell lysates Lane 2: SH-SY5Y whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ZIC1 Antibody (N-term) (Cat. #AP16034a) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the ZIC1 antibody detected the ZIC1 protein (arrow).



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