10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ZIC1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16034a

Specification

ZIC1 Antibody (N-term) - Product Information

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

ZIC1 Antibody (N-term) - 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~~1:2000
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.

ZIC1 Antibody (N-term) - 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.

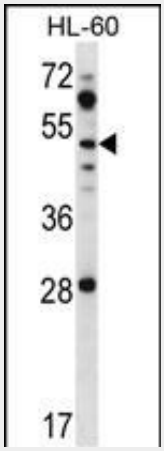
Tissue Location
CNS. A high level expression is seen in the cerebellum. Detected in the nuclei of the cerebellar granule cell lineage from the progenitor cells of the external germinal layer to the postmigrated cells of the internal granular layer. Detected in medulloblastoma (26/29 cases), but not present in all other tumors examined.

ZIC1 Antibody (N-term) - Protocols

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

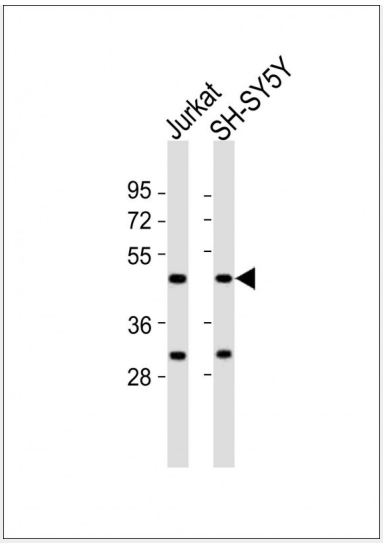
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ZIC1 Antibody (N-term) - Images



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).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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) - 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.

ZIC1 Antibody (N-term) - 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)