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Anti-ZIC1/2/3/4/5 Antibody

Catalog # AP53880

Product Information

Application	WB, IF/IC
Primary Accession	Q15915
Other Accession	O95409, O60481, Q8N9L1, Q96T25
Reactivity	Human, Mouse, Rat, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48309

Additional Information

Gene ID	7545
Other Names	ZIC1; ZIC; ZNF201; Zinc finger protein ZIC 1; Zinc finger protein 201; Zinc finger protein of the cerebellum 1; ZIC2; Zinc finger protein ZIC 2; Zinc finger protein of the cerebellum 2; ZIC3; ZNF203; Zinc finger protein ZIC 3; Zinc finger protein 203; Zinc finger protein of the cerebellum 3; ZIC4; Zinc finger protein ZIC 4; Zinc finger protein of the cerebellum 4; ZIC5; Zinc finger protein ZIC 5; Zinc finger protein of the cerebellum 5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZIC1/2/3/4/5. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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).

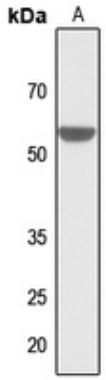
Cellular Location

Nucleus. Cytoplasm. Note=Localizes in the cytoplasm in presence of MDFIC overexpression.

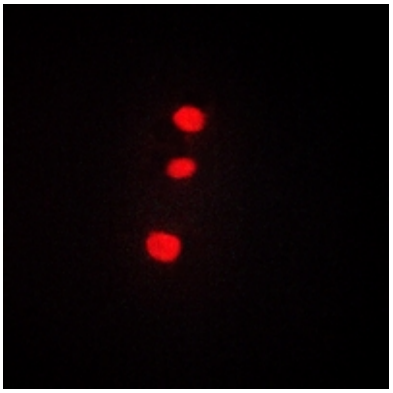
Tissue Location

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.

Images



Western blot analysis of ZIC1/2/3/4/5 expression in rat brain (A) whole cell lysates. (Predicted band size: 48; 55; 50; 36; 68 kD; Observed band size: 55 kD)



Immunofluorescent analysis of ZIC1/2/3/4/5 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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