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

ZIC1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16034a

Specification

ZIC1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q15915

ZIC1 Antibody (N-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZIC1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

ZIC1 Antibody (N-term) Blocking Peptide - Images

ZIC1 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the ZIC family of C2H2-typezinc finger proteins. Members of this family are important duringdevelopment. Aberrant expression of this gene is seen inmedulloblastoma, a childhood brain tumor. This gene is closelylinked to the gene encoding zinc finger protein of the cerebellum4, a related family member on chromosome 3. This gene encodes atranscription factor that can bind and transactivate theapolipoprotein E gene.

ZIC1 Antibody (N-term) Blocking Peptide - 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)