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

ZIC4 Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant ZIC4.
Catalog # AT4584a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q8N9L1
Other Accession	NM_032153
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3A2
Calculated MW	36567

Additional Information

Gene ID	84107
Other Names	Zinc finger protein ZIC 4, Zinc finger protein of the cerebellum 4, ZIC4
Target/Specificity	ZIC4 (NP_115529, 249 a.a. ~ 319 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ZIC4 Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

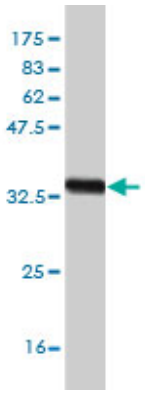
This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. Members of this family are important during development, and have been associated with X-linked visceral heterotaxy and holoprosencephaly type 5. This gene is closely linked to the gene encoding zinc finger protein of the cerebellum 1, a related family member on chromosome 3. Heterozygous deletion of these linked genes is involved in Dandy-Walker malformation, which is a congenital cerebellar malformation. Multiple transcript variants have been identified for this gene.

References

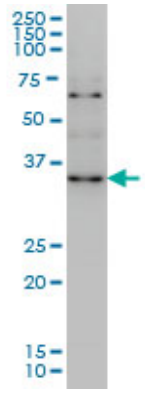
[Technology of analysis of epigenetic and structural changes of epithelial tumors genome with

NotI-microarrays by the example of human chromosome] Pavlova TV, et al. Mol Biol (Mosk), 2009 Mar-Apr. PMID 19425501.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.The ZIC gene family in development and disease. Grinberg I, et al. Clin Genet, 2005 Apr. PMID 15733262.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Antibodies to Zic4 in paraneoplastic neurologic disorders and small-cell lung cancer. Jaster JH. Neurology, 2004 Oct 12. PMID 15477575.

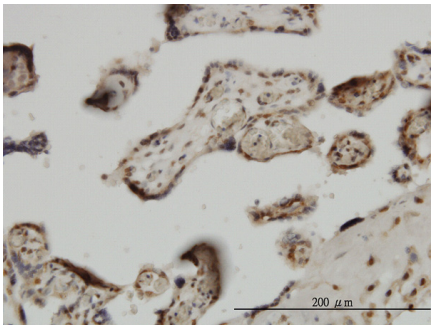
Images



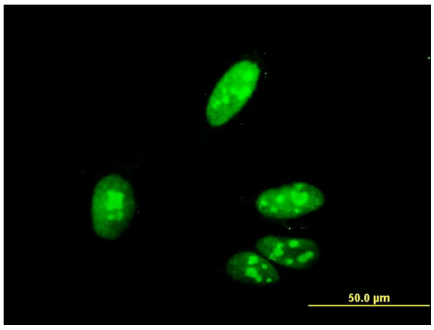
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.55 KDa) .



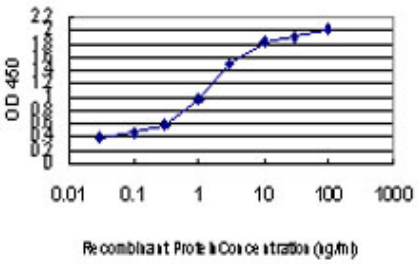
ZIC4 monoclonal antibody (M09), clone 3A2 Western Blot analysis of ZIC4 expression in Hela S3 NE ((Cat # AT4584a)



Immunoperoxidase of monoclonal antibody to ZIC4 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to ZIC4 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged ZIC4 is approximately 0.03ng/ml as a capture antibody.

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