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ZIC3 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2761c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O60481
Other Accession	NP_003404.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15116
Calculated MW	50569
Antigen Region	239-267

Additional Information

Gene ID	7547
Other Names	Zinc finger protein ZIC 3, Zinc finger protein 203, Zinc finger protein of the cerebellum 3, ZIC3, ZNF203
Target/Specificity	This ZIC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 239-267 amino acids from the Central region of human ZIC3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	ZIC3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZIC3
Synonyms	ZNF203

Function	Acts as a transcriptional activator. Required in the earliest stages in both axial midline development and left-right (LR) asymmetry specification. Binds to the minimal GLI-consensus sequence 5'-GGGTGGTC- 3'.
Cellular Location	Nucleus. Cytoplasm. Note=Localizes in the cytoplasm in presence of MDFIC overexpression (By similarity) Translocation to the nucleus requires KPNA1 or KPNA6.

Background

This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. This nuclear protein probably functions as a transcription factor in early stages of left-right body axis formation. Mutations in this gene cause X-linked visceral heterotaxy, which includes congenital heart disease and left-right axis defects in organs.

References

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Koyabu, Y., et al. J. Biol. Chem. 276(10):6889-6892(2001)
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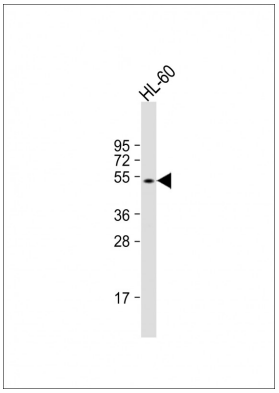
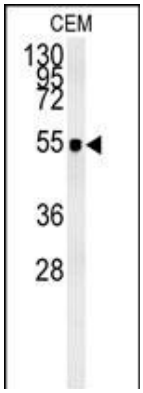
Gebbia, M., et al. Nat. Genet. 17(3):305-308(1997)
Casey, B., et al. Nat. Genet. 5(4):403-407(1993)

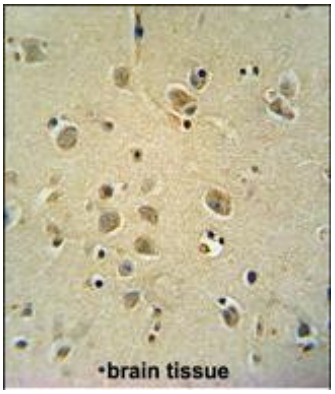
Images



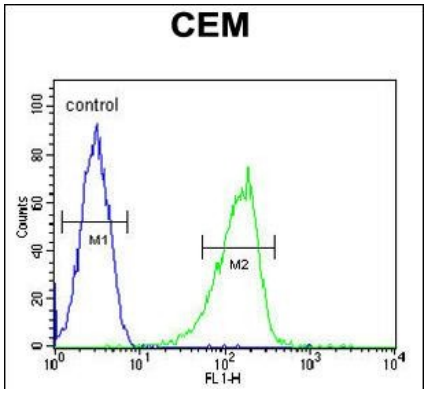
Anti-ZIC3 Antibody (Center) at 1:1000 dilution + HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ZIC3 Antibody (Center) (Cat. #AP2761c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the ZIC3 antibody detected the ZIC3 protein (arrow).



ZIC3 Antibody (Center) (Cat. #AP2761c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ZIC3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



ZIC3 Antibody (Center) (Cat. #AP2761c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.