DATASHEET

ZIC1/2/3/4/5 Rabbit Polyclonal Antibody

CAT. NO. APA09595

KEY FEATURES

Target	ZIC1/2/3/4/5	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Chicken	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

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' .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to ZIC1/2/3/4/5
Specificity	Recognizes endogenous levels of ZIC1/2/3/4/5 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZIC1/2/3/4/5. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 48; Observed: 55 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative 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
Gene Symbol	ZIC1
Entrez Gene	7545; 7546; 7547; 84107; 85416(Human); 22771; 22773; 22774(Mouse)
SwissProt	Q15915; O95409; O60481; Q8N9L1; Q96T25(Human); P46684; Q62520; Q62521; Q61467(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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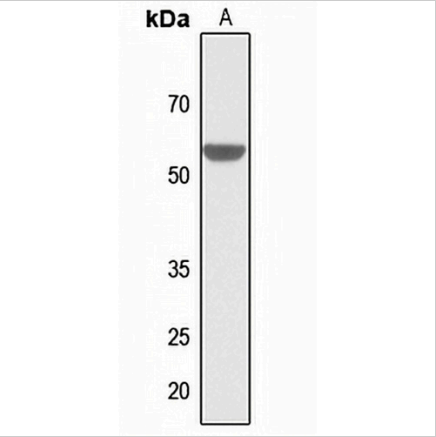
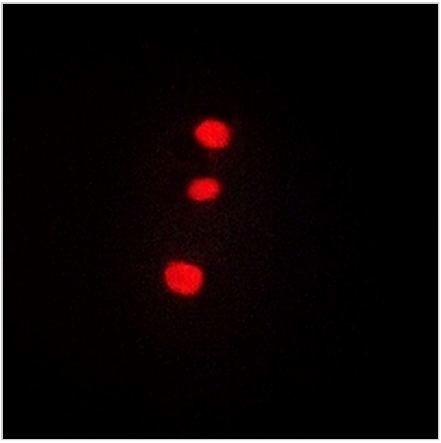
DATA



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 AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.