

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse ZIC1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ZIC1 Met1-Gly198 Accession # Q15915
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ZIC1 (zinc-finger protein of the cerebellum 1) is a 54-60 kDa member of the GLI C2H2-type Zn-finger protein family. It is expressed in embryonic sclerotome and dermomyotome and in postmitotic cerebellar granule cells and retinal ganglion cells. ZIC1 is a transcription factor that promotes ApoE expression and blocks activation of Math1, allowing for neuroblast multiplication at the expense of differentiation. Human ZIC1 is 447 amino acids (aa) in length. It contains N-terminal poly Ala and His segments, followed by five C2H2-type Zn-fingers. Although the first two are atypical (aa 225-296), the last three Zn-fingers (aa 302-384) are canonical and bind to GLI1, 2 and 3. There is one potential alternate start site at Met353. Over aa 1-198, human ZIC1 is 99% aa identical to mouse ZIC1.

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