

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects endogenous human and mouse ZIC3 in Western blots.                             |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                  |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                             |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human ZIC3<br>His380-Val467<br>Accession # O60481 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm       |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

#### 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

ZIC3 (zinc-finger protein of the cerebellum 3) is a 50 kDa (predicted) member of the GLI C2H2-type Zn-finger protein family. It is expressed in cerebellum, and apparently plays a key role in left-right body axis formation. Human ZIC3 is 467 amino acids (aa) in length. It contains N-terminal poly-Ala (aa 46-55) and poly-His (aa 87-97) segments, followed by five C2H2-type Zn-fingers (aa 253-410). Within the zinc finger region, there is an overlapping NES (aa 290-349) and two NLS's (aa 367-382 and 403-410). ZIC3 reportedly binds to GLI-3. There is one potential splice form that shows a 49 aa substitution for aa 409-467, and a second splice form that shows a three aa addition to the C-terminus. Over aa 380-467, human ZIC3 displays absolute/100% identity to mouse ZIC3.

#### PRODUCT SPECIFIC NOTICES

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