

DESCRIPTION

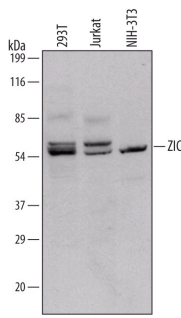
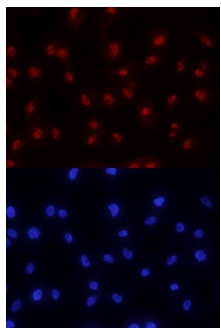
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse ZIC3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ZIC3 His380-Val467 Accession # O60481
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse ZIC3 by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line, Jurkat human acute T cell leukemia cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse ZIC3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5310) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ZIC3 at approximately 56 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>ZIC3 in A172 Human Cell Line. ZIC3 was detected in immersion fixed A172 human glioblastoma cell line using Human/Mouse ZIC3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5310) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

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.