Human/Mouse ZIC3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5310

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse ZIC3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

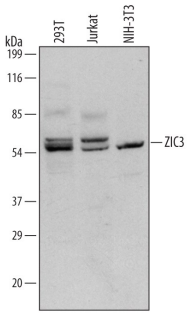
APPLICATIONS

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

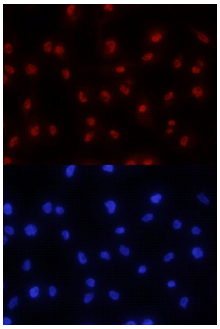
DATA

Western Blot



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.

Immunocytochemistry



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.

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956