

Datasheet for ABIN2776475
anti-ZIC2 antibody (C-Term)[Go to Product page](#)

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Overview

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|----------------------|---|
| Quantity: | 100 µL |
| Target: | ZIC2 |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Rat, Mouse, Guinea Pig |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ZIC2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

Product Details

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| Immunogen: | The immunogen is a synthetic peptide directed towards the C terminal region of human ZIC2 |
| Sequence: | EPQSSSNLSP AAAAAAAAAA AAAAAVSAVH RGGSGSGGGA GGGSGGGSGS |
| Predicted Reactivity: | Guinea Pig: 87%, Human: 100%, Mouse: 85%, Rat: 92% |
| Characteristics: | This is a rabbit polyclonal antibody against ZIC2. It was validated on Western Blot and immunohistochemistry. |
| Purification: | Affinity Purified |

Target Details

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| Target: | ZIC2 |
| Alternative Name: | ZIC2 (ZIC2 Products) |

Target Details

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| Background: | <p>ZIC2 is a member of the ZIC family of C2H2-type zinc finger proteins. This protein functions as a transcriptional repressor and may regulate tissue specific expression of dopamine receptor D1. Mutations in this gene cause holoprosencephaly type 5. Holoprosencephaly is the most common structural anomaly of the human brain. A polyhistidine tract polymorphism in this gene may be associated with increased risk of neural tube defects. This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. This protein functions as a transcriptional repressor and may regulate tissue specific expression of dopamine receptor D1. Mutations in this gene cause holoprosencephaly type 5. Holoprosencephaly is the most common structural anomaly of the human brain. A polyhistidine tract polymorphism in this gene may be associated with increased risk of neural tube defects. This gene is closely linked to a gene encoding zinc finger protein of the cerebellum 5, a related family member on chromosome 13.</p> <p>Alias Symbols: HPE5</p> <p>Protein Interaction Partner: SUMO1, ELAVL1, GLI3, GLI2, GLI1, RNF180, UBC,</p> <p>Protein Size: 532</p> |
|-------------|--|

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|-------------------|---|
| Molecular Weight: | 55 kDa |
| Gene ID: | 7546 |
| NCBI Accession: | NM_007129 , NP_009060 |
| UniProt: | O95409 |
| Pathways: | Tube Formation |

Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 532 AA |
| Restrictions: | For Research Use only |

Handling

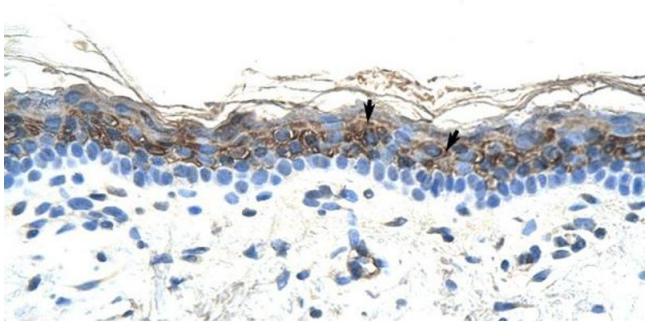
| | |
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| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |

Handling

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| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Publications

| | |
|-------------------|--|
| Product cited in: | <p>Toth, Schiffmann, Hube-Magg, Büscheck, Höflmayer, Weidemann, Lebok, Fraune, Minner, Schlomm, Sauter, Plass, Assenov, Simon, Meiners, Gerhäuser: "Random forest-based modelling to detect biomarkers for prostate cancer progression." in: Clinical epigenetics, Vol. 11, Issue 1, pp. 148, (2020) (PubMed).</p> <p>Inaguma, Ito, Riku, Ikeda, Kasai: "Addiction of pancreatic cancer cells to zinc-finger transcription factor ZIC2." in: Oncotarget, Vol. 6, Issue 29, pp. 28257-68, (2015) (PubMed).</p> <p>Zhu, Wang, He, Huang, Du, Zhang, Yan, Xia, Ye, Wang, Hao, Wu, Fan: "ZIC2-dependent OCT4 activation drives self-renewal of human liver cancer stem cells." in: The Journal of clinical investigation, Vol. 125, Issue 10, pp. 3795-808, (2015) (PubMed).</p> <p>McCampbell, Truong, Broom, Allchorne, Gable, Cutler, Mattson, Woolf, Frosch, Harmon, Dunn, Brown: "Mutant SPTLC1 dominantly inhibits serine palmitoyltransferase activity in vivo and confers an age-dependent neuropathy." in: Human molecular genetics, Vol. 14, Issue 22, pp. 3507-21, (2005) (PubMed).</p> |
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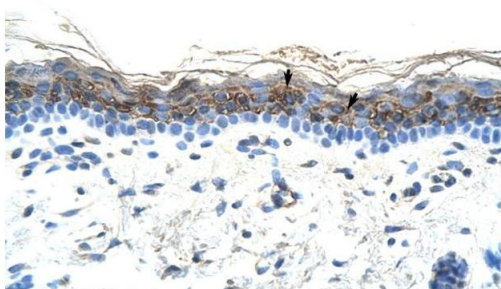
Immunohistochemistry

Image 1. Human Skin



Western Blotting

Image 2. WB Suggested Anti-ZIC2 Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2 cell lysate



Rabbit Anti-ZIC2 Antibody
Catalog Number: ARP35821
Lot Number: QC11504
Paraffin Embedded Tissue: Human Skin
Cells with Positive label: Squamous epithelial cells (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

Immunohistochemistry

Image 3. Human Skin