abcam

Product datasheet

Zic1 peptide ab201520

Description

Product name	Zic1 peptide
Animal free	No
Nature	Synthetic

Specifications

Our **Abpromise guarantee** covers the use of **ab201520** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Blocking - Blocking peptide for Anti-Zic1 antibody [EPR7291(2)] (**ab134951**)
Form	Liquid
Additional notes	This is the blocking peptide for **ab134951** *- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.* *- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.* *- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.* *- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.* *- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.*

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C.

General Info

Function	Acts as a transcriptional activator. Involved in neurogenesis. Plays important roles in the early stage of organogenesis of the CNS, as well as during dorsal spinal cord development and maturation of the cerebellum. Involved in the spatial distribution of mossy fiber (MF) neurons within the pontine gray nucleus (PGN). Plays a role in the regulation of MF axon pathway choice.

	Promotes MF migration towards ipsilaterally-located cerebellar territories. May have a role in shear flow mechanotransduction in osteocytes. Retains nuclear GLI1 and GLI3 in the cytoplasm. Binds to the minimal GLI-consensus sequence 5'-TGGGTGGTC-3'.
Tissue specificity	CNS. A high level expression is seen in the cerebellum. Detected in the nuclei of the cerebellar granule cell lineage from the progenitor cells of the external germinal layer to the postmigrated cells of the internal granular layer. Detected in medulloblastoma (26/29 cases), but not present in all other tumors examined.
Sequence similarities	Belongs to the GLI C2H2-type zinc-finger protein family. Contains 5 C2H2-type zinc fingers.
Domain	The C2H2-type 3, 4 and 5 zinc finger domains are necessary for transcription activation.
Cellular localization	Nucleus. Cytoplasm. Localizes in the cytoplasm in presence of MDFIC overexpression.

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