

Anti-Homeobox protein cut-like 1 Antibody [PSH14-70]

HA723668



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse, Rat
Applications:	IHC-Fr, IHC-P
Molecular Wt:	Predicted band size: 166 kDa
Clone number:	PSH14-70

Description: Transcription factor involved in the control of neuronal differentiation in the brain. Regulates dendrite development and branching, and dendritic spine formation in cortical layers II-III. Also involved in the control of synaptogenesis (Probable). In addition, it has probably a broad role in mammalian development as a repressor of developmentally regulated gene expression. May act by preventing binding of positively-activating CCAAT factors to promoters. Component of nf-munr repressor; binds to the matrix attachment regions (MARs) (5' and 3') of the immunoglobulin heavy chain enhancer. Represses T-cell receptor (TCR) beta enhancer function by binding to MARbeta, an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Binds to the TH enhancer; may require the basic helix-loop-helix protein TCF4 as a coactivator.

Immunogen: Recombinant protein within mouse Homeobox protein cut-like 1 aa 1,000-1,200.

Positive control: Mouse cerebrum tissue, rat cerebrum tissue.

Subcellular location: Nucleus.

Database links: SwissProt: P53564 Mouse | P53565 Rat

Recommended Dilutions:

IHC-Fr	1:200-1:500
IHC-P	1:500-1:1,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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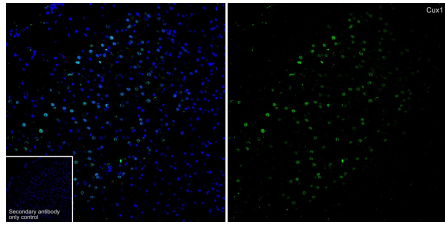
Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

**Fig1:** Application: IHC-Fr

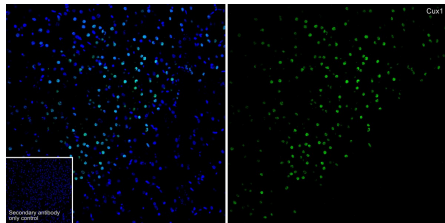
Species: Mouse

Site: cerebrum

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Recommend. The section was pre-treated using 1% SDS buffer (in PBS, pH 7.4) for 5 minutes at room temperature.

**Fig2:** Application: IHC-Fr

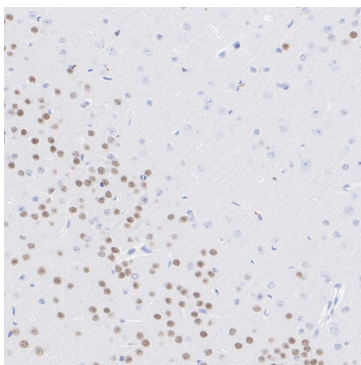
Species: Rat

Site: cerebrum

Sample: Frozen section

Antibody concentration: 1/500

Antigen retrieval: Not required

**Fig3:** Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue with Rabbit anti-Homeobox protein cut-like 1 antibody (HA723668) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723668) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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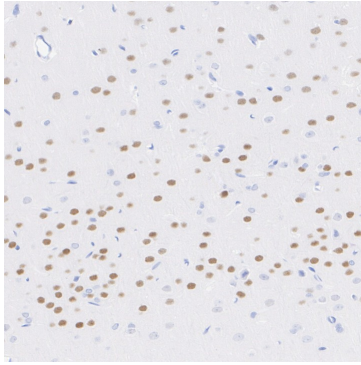


Fig4: Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue with Rabbit anti-Homeobox protein cut-like 1 antibody (HA723668) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723668) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Liu N et al. CUX1, A Controversial Player in Tumor Development. *Front Oncol.* 2020 May
2. Jotte MRM et al. The significance of CUX1 and chromosome 7 in myeloid malignancies. *Curr Opin Hematol.* 2022 Mar

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