

# Anti-Homeobox protein cut-like 1 Antibody [PSH14-70] - BSA and Azide free

## HA751530



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Mouse, Rat
<b>Applications:</b>	IHC-Fr, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 166 kDa
<b>Clone number:</b>	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).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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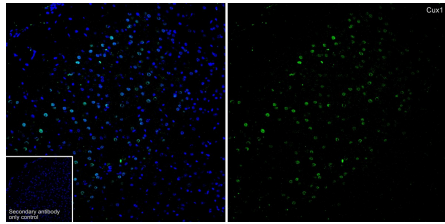
Orders:0086-571-88062880

Technical:0086-571-89986345

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## Images

**Fig1:** Application: IHC-Fr

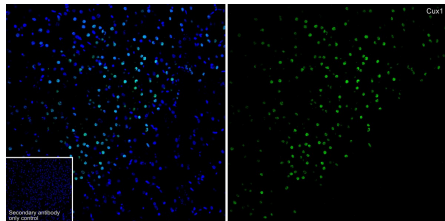
Species: Mouse

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

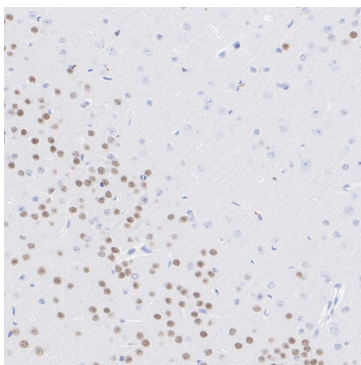
Species: Rat

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 (HA751530) 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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA751530) 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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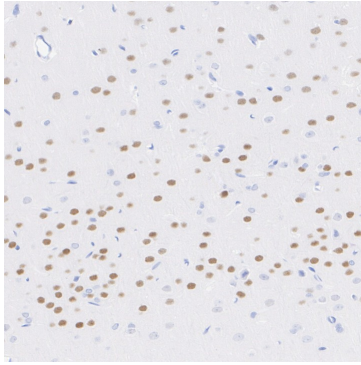
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**Fig4:** Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue with Rabbit anti-Homeobox protein cut-like 1 antibody (HA751530) at 1/1,000 dilution.

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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA751530) 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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