

**VENTX Antibody**  
**Catalog # ASC11175****Specification**

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**VENTX Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O95231</a>
Other Accession	<a href="#">NP_055283</a> , <a href="#">7657180</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	VENTX antibody can be used for detection of VENTX by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

**VENTX Antibody - Additional Information**

Gene ID	27287
Target/Specificity	
VENTX;	

**Reconstitution & Storage**

VENTX antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

VENTX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**VENTX Antibody - Protein Information**

**Name** VENTX

**Synonyms** HPX42B, VENTX2

**Function**

May be involved in ventralization.

**Cellular Location**

Nucleus.

**Tissue Location**

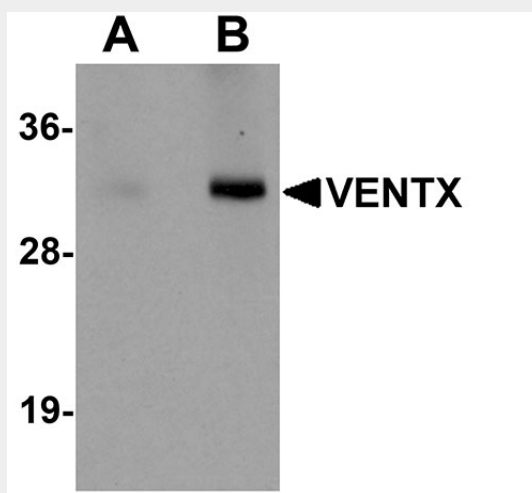
Expressed in bone marrow of patients recovering from chemotherapy. Also expressed in an erythroleukemia cell line

## VENTX Antibody - Protocols

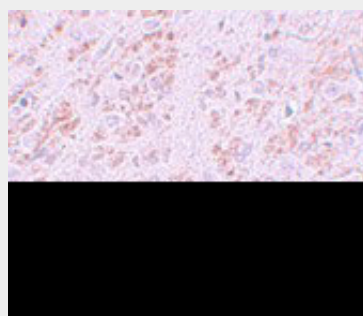
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

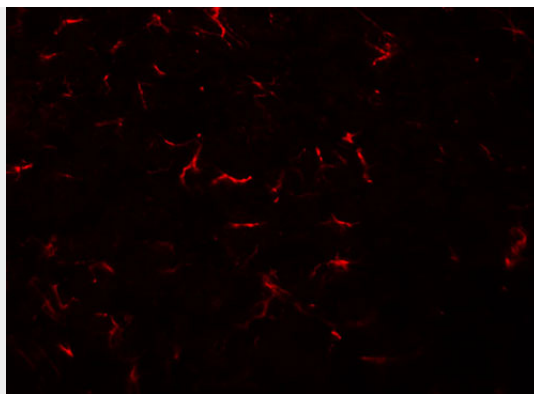
## VENTX Antibody - Images



Western blot analysis of VENTX in mouse brain tissue lysate with VENTX antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunohistochemistry of VENTX in rat brain tissue with VENTX antibody at 5  $\mu$ g/mL.



Immunofluorescence of VENTX in rat brain tissue with VENTX antibody at 20 µg/mL.

### **VENTX Antibody - Background**

VENTX Antibody: Lymphoid-enhancing factor/T-cell factors (LEF1/TCF) are a high-mobility group of transcriptional factors that play essential roles in cell fate determination during early embryogenesis and ontogenesis. VENTX is a member of the Vent family of homeodomain proteins. It is a novel LEF/TCF-associated transcriptional modulator. VENTX is predominately expressed in hematopoietic cells. VENTX may function as a transcriptional repressor and be involved in mesodermal patterning and hematopoietic stem cell maintenance, and has been suggested to have a potential role in the hematopoietic malignancies.

### **VENTX Antibody - References**

Reya T and Clevers H. Wnt signalling in stem cells and cancer. *Nature* 2005; 434:843-50.  
Moretti PA, Davidson AJ, Baker E, et al. Molecular cloning of a human Vent-like homeobox gene. *Genomics* 2001; 76:21-9.  
Gao H, Le Y, Wu X, et al. VentX, a novel lymphoid-enhancing factor/T-cell factor-associated transcription repressor, is a putative tumor suppressor. *Cancer Res.* 2010; 70:202-11.  
Shtutman M, Zhurinsky J, Simcha I, et al. The cyclin D1 gene is a target of the  $\beta$ -catenin/LEF-1 pathway. *Proc. Natl. Acad. Sci. USA* 1999; 96:5522-7.