

# VENTX Antibody

Catalog # ASC11175

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">O95231</a>
<b>Other Accession</b>	<a href="#">NP_055283</a> , <a href="#">7657180</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	27552
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	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.

## Additional Information

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<b>Gene ID</b>	27287
<b>Other Names</b>	Homeobox protein VENTX, VENT homeobox homolog, VENT-like homeobox protein 2, VENTX, HPX42B, VENTX2
<b>Target/Specificity</b>	VENTX;
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	VENTX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	VENTX
<b>Synonyms</b>	HPX42B, VENTX2
<b>Function</b>	May be involved in ventralization.
<b>Cellular Location</b>	Nucleus.
<b>Tissue Location</b>	Expressed in bone marrow of patients recovering from chemotherapy. Also expressed in an erythroleukemia cell line

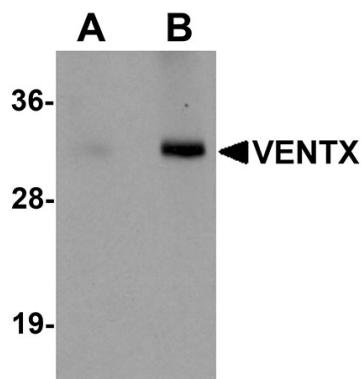
## Background

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.

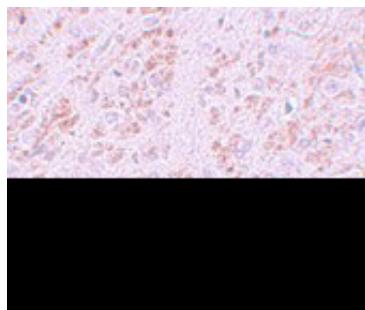
## References

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.

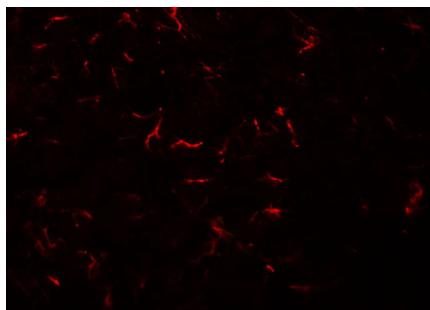
## Images



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



Immunohistochemistry of VENTX in rat brain tissue with VENTX antibody at 5 µg/mL.



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.