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VENTX Antibody

Catalog # ASC11175

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O95231
Other Accession	NP_055283, 7657180
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	27552
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	VENTX antibody can be used for detection of VENTX by Western blot at 1 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL.

Additional Information

Gene ID	27287
Other Names	Homeobox protein VENTX, VENT homeobox homolog, VENT-like homeobox protein 2, VENTX, HPX42B, VENTX2
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.

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

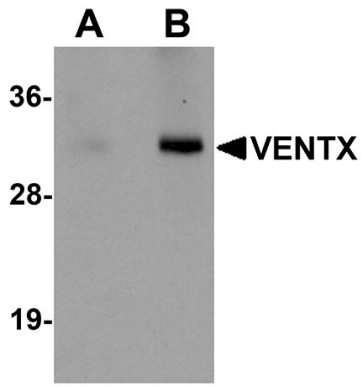
Background

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 hemapoietic stem cell maintenance, and has been suggested to have a potential role in the hematopoietic malignancies.

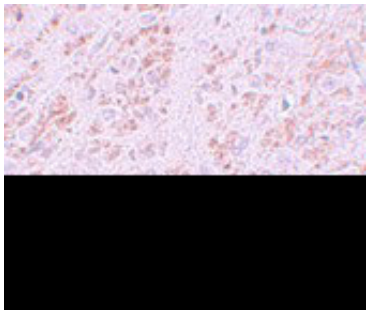
References

Reya T and Clevers H. Wnt signalling in stem cells and cancer. Nature2005; 434:843-50.
Moretti PA, Davidson AJ, Baker E, et al. Molecular cloning of a human Vent-like homeobox gene. Genomics2001; 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 β-catenin/LEF-1 pathway. Proc. Natl. Acad. Sci. USA1999; 96:5522-7.

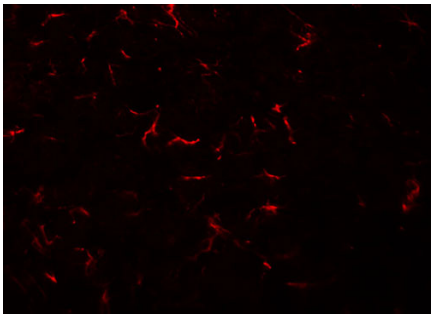
Images



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'.