

TOX4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17670A

Product Information

Application	WB, E
Primary Accession	O94842
Other Accession	NP_055643.1
Reactivity	Human
Predicted	Mouse, Rat, Rabbit, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37476
Calculated MW	66195
Antigen Region	172-199

Additional Information

Gene ID	9878
Other Names	TOX high mobility group box family member 4, Epidermal Langerhans cell protein LCP1, TOX4, C14orf92, KIAA0737
Target/Specificity	This TOX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-199 amino acids from the N-terminal region of human TOX4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TOX4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TOX4 {ECO:0000303 PubMed:34914893, ECO:0000312 HGNC:HGNC:20161}
Function	Transcription factor that modulates cell fate reprogramming from the somatic state to the pluripotent and neuronal fate (By similarity). In liver,

controls the expression of hormone-regulated gluconeogenic genes such as G6PC1 and PCK1 (By similarity). This regulation is independent of the insulin receptor activation (By similarity). Also acts as a regulatory component of protein phosphatase 1 (PP1) complexes (PubMed:[39603239](#), PubMed:[39603240](#)). Component of the PNUTS-PP1 protein phosphatase complex, a PP1 complex that regulates RNA polymerase II transcription pause-release (PubMed:[39603239](#), PubMed:[39603240](#)). PNUTS-PP1 also plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase (PubMed:[20516061](#)).

Cellular Location

Nucleus. Chromosome. Note=Associated with chromatin; colocalizes with RNA polymerase II (Pol II) on chromatin {ECO:0000250|UniProtKB:Q8BU11}

Tissue Location

Expressed in liver (at protein level).

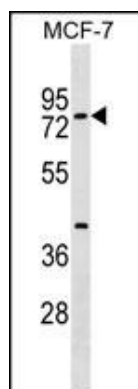
Background

TOX4 (TOX high mobility group box family member 4) contains 1 HMG box DNA-binding domain and the function remains unknown.

References

Lee, J.H., et al. J. Biol. Chem. 285(32):24466-24476(2010)
Lee, S.J., et al. Exp. Mol. Med. 41(3):189-200(2009)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Lim, J., et al. Cell 125(4):801-814(2006)
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)

Images



TOX4 Antibody (N-term) (Cat. #AP17670a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the TOX4 antibody detected the TOX4 protein (arrow).

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