

MyT1L Rabbit pAb

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Catalog # AP54291

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UL68
Predicted	Rat, Pig, Dog, Human, Mouse, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	133043
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MyT1L
Epitope Specificity	901-1000/1186
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	23040
Other Names	Myelin transcription factor 1-like protein {ECO:0000303 Ref.1}, MyT1-L {ECO:0000303 Ref.1}, MyT1L {ECO:0000303 Ref.1}, MYT1L {ECO:0000303 Ref.1, ECO:0000312 HGNC:HGNC:7623}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYT1L {ECO:0000303 Ref.1, ECO:0000312 HGNC:HGNC:7623}
Function	Transcription factor that plays a key role in neuronal differentiation by specifically repressing expression of non-neuronal genes during neuron differentiation. In contrast to other transcription repressors that inhibit specific lineages, mediates repression of multiple differentiation programs. Also represses expression of negative regulators of neurogenesis, such as

members of the Notch signaling pathway, including HES1. The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro. Directly binds the 5'-AAGTT-3' core motif present on the promoter of target genes and represses transcription by recruiting a multiprotein complex containing SIN3B. The 5'-AAGTT-3' core motif is absent from the promoter of neural genes.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P97500}. Chromosome {ECO:0000250|UniProtKB:P97500}. Note=Preferentially binds to DNA binding sites that are in an open chromatin configuration {ECO:0000250|UniProtKB:P97500}

Background

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