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MAML1 Rabbit pAb

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Catalog # AP54848

Product Information

Application	WB
Primary Accession	Q92585
Reactivity	Human
Predicted	Rat, Dog, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108054
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAML1
Epitope Specificity	401-500/1016
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 speckle. Nuclear, in a punctate manner.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Notch receptors are involved in cell-fate determination in organisms as diverse as flies, frogs, and humans (1). The 'mastermind' gene has been identified in multiple genetic screens for modifiers of Notch mutations in Drosophila melanogaster (2). In Drosophila, loss-of-function mutations of Notch produce a 'neurogenic' phenotype in which cells destined to become epidermis switch fate and differentiate to neural cells (2). The human homolog, mastermind-like 1 (Mam1), localizes to nuclear bodies (2-4). Mam1 binds to the ankyrin repeat domain of all four mammalian Notch receptors, forms a DNA-binding complex with ICN and RBP-Jk, and amplifies Notch-induced transcription of Hes1 (2). Mam1 is an essential component of the transcriptional apparatus of Notch signaling (5). The gene which encodes Mam1 maps to human chromosome 5 (4).

Additional Information

Gene ID	9794
Other Names	Mastermind-like protein 1, Mam-1, MAML1 (HGNC:13632)
Dilution	WB=1:500-2000
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.

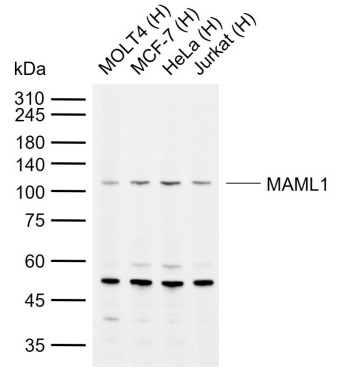
Protein Information

Name	MAML1 (HGNC:13632)
Function	Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1. Enhances phosphorylation and proteolytic turnover of the NOTCH intracellular domain in the nucleus through interaction with CDK8. Binds to CREBBP/CBP which promotes nucleosome acetylation at NOTCH enhancers and activates transcription. Induces phosphorylation and localization of CREBBP to nuclear foci. Plays a role in hematopoietic development by regulating NOTCH-mediated lymphoid cell fate decisions.
Cellular Location	Nucleus speckle. Note=Nuclear, in a punctate manner
Tissue Location	Widely expressed with highest levels in heart, pancreas, peripheral blood leukocytes and spleen

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Images



Sample:
Lane 1: Human MOLT4 cell lysates
Lane 2: Human MCF-7 cell lysates
Lane 3: Human HeLa cell lysates
Lane 4: Human Jurkat cell lysates
Primary: Anti-MAML1 (AP54848) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 108 kDa
Observed band size: 110 kDa

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