

**Goat Anti-MAML1 / Mastermind Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1647a****Specification**

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**Goat Anti-MAML1 / Mastermind Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O92585</a>
Other Accession	<a href="#">NP_055572</a> , <a href="#">9794</a>
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	108054

**Goat Anti-MAML1 / Mastermind Antibody - Additional Information****Gene ID** 9794**Other Names**

Mastermind-like protein 1, Mam-1, MAML1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=13632" target="\_blank">HGNC:13632</a>)

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-MAML1 / Mastermind Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-MAML1 / Mastermind Antibody - 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

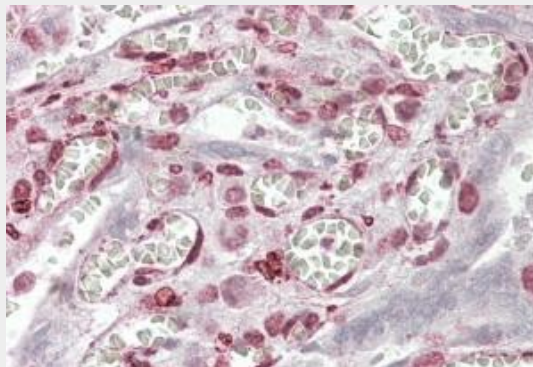
**Goat Anti-MAML1 / Mastermind Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-MAML1 / Mastermind Antibody - Images**

AF1647a (0.1 µg/ml) staining of Human Skeletal Muscle lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1647a (3.8 µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

**Goat Anti-MAML1 / Mastermind Antibody - Background**

This protein is the human homolog of mastermind, a Drosophila protein that plays a role in the Notch signaling pathway involved in cell-fate determination. There is in vitro evidence that the human homolog forms a complex with the intracellular portion of human Notch receptors and can increase expression of a Notch-induced gene. This evidence supports its proposed function as a transcriptional co-activator in the Notch signaling pathway.

#### **Goat Anti-MAML1 / Mastermind Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

SUMO modification regulates the transcriptional activity of MAML1. Lindberg MJ, et al. FASEB J, 2010 Jul. PMID 20203086.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

Notch-1 activates estrogen receptor-alpha-dependent transcription via IKKalpha in breast cancer cells. Hao L, et al. Oncogene, 2010 Jan 14. PMID 19838210.

Transcriptional mechanisms by the coregulator MAML1. Saint Just Ribeiro M, et al. Curr Protein Pept Sci, 2009 Dec. PMID 19751190.