

# Anti-MAML3 Antibody

Mouse Monoclonal Antibody Catalog # AH13458

#### **Product Information**

Application	IHC-P, IF, FC
Primary Accession	<u>Q96JK9</u>
Other Accession	<u>586165</u>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1
Clone Names	MAML3/1303
Calculated MW	122293

### **Additional Information**

Gene ID	55534
Other Names	CAGH3; ERDA3; GDN; MAML3; Mastermind-like protein 3; TNRC3
Application Note	Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (0.5-1ug/ml); ,Immunohistology (Formalin-fixed) (0.5-1.0ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Anti-MAML3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

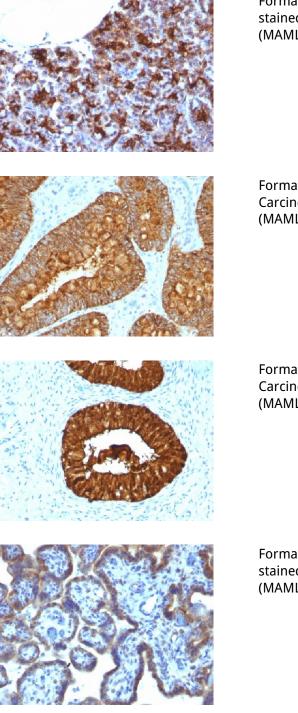
#### **Protein Information**

Name	MAML3 ( <u>HGNC:16272</u> )
Function	Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1.
Cellular Location	Nucleus speckle. Note=Nuclear, in a punctate manner

## Background

MAML3 (mastermind-like protein 3) is a nuclear speckle protein that acts as a transcriptional coactivator for Notch receptors. The Notch signaling pathway influences cell fate by regulating the ability of precursor cells to properly respond to developmental signals. MAML3 is a member of the mastermind-like family of proteins that are human homologs of the Drosophila melanogaster mastermind protein. Through its N-terminal region, MAML3 interacts with the ankyrin repeats of the Notch proteins Notch 1, Notch 2, Notch 3 and Notch 4. This interaction leads to formation of a DNA-binding complex with the Notch proteins and RBP-Jĸ; a complex that can then induce HES1 gene expression. While the N-terminal domain of MAML3 is essential for proper Notch binding, the C-terminal domain of MAML3 is essential for transcriptional activation. Due to its involvement in cell signaling and transcriptional activation, upregulation of MAML3 is thought to be involved in oncogenesis.

#### Images



Formalin-fixed, paraffin-embedded Human Pancreas stained with MAML3 Monoclonal Antibody (MAML3/1303).

Formalin-fixed, paraffin-embedded Human Colon Carcinoma stained with MAML3 Monoclonal Antibody (MAML3/1303).

Formalin-fixed, paraffin-embedded Human Cervical Carcinoma stained with MAML3 Monoclonal Antibody (MAML3/1303).

Formalin-fixed, paraffin-embedded Human Placenta stained with MAML3 Monoclonal Antibody (MAML3/1303). Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.