

**Anti-MAML3 Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13458****Specification**

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**Anti-MAML3 Antibody - Product Information**

Application	,14,3,4,
Primary Accession	<a href="#">O96JK9</a>
Other Accession	<a href="#">586165</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1
Calculated MW	122293

**Anti-MAML3 Antibody - Additional Information****Gene ID** 55534**Other Names**

CAGH3; ERDA3; GDN; MAML3; Mastermind-like protein 3; TNRC3

**Format**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; 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.

**Anti-MAML3 Antibody - Protein Information****Name** MAML3 ([HGNC:16272](#))**Function**

Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1.

**Cellular Location**

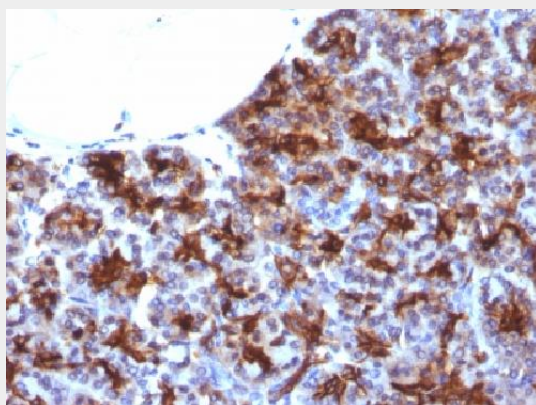
Nucleus speckle. Note=Nuclear, in a punctate manner

**Anti-MAML3 Antibody - Protocols**

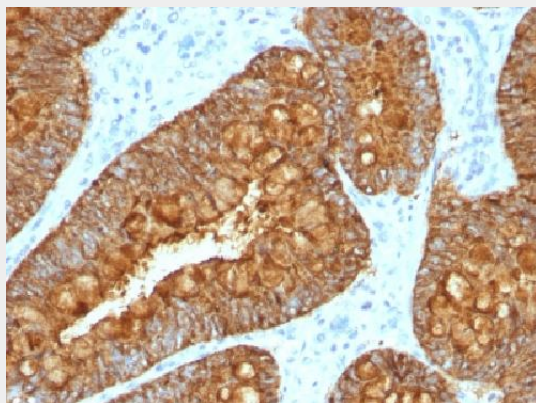
Provided below are standard protocols that you may find useful for product applications.

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

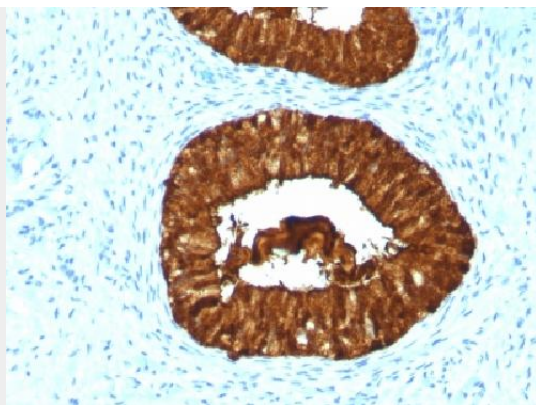
#### **Anti-MAML3 Antibody - Images**



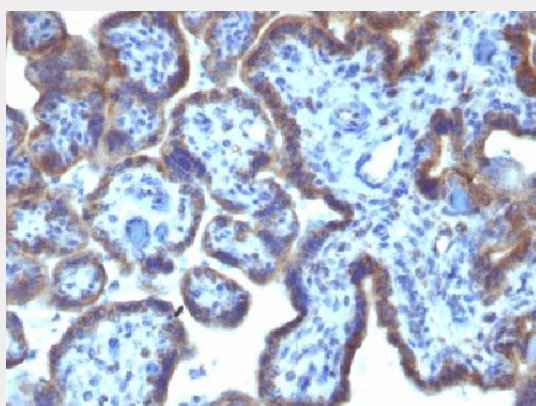
Formalin-fixed, paraffin-embedded Human Pancreas stained with MAML3 Monoclonal Antibody (MAML3/1303).



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).

#### **Anti-MAML3 Antibody - 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-J $\kappa$ ; 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.