10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-MAML3 Antibody
Mouse Monoclonal Antibody
Catalog # AH13458

Specification

Anti-MAML3 Antibody - Product Information

Application	**,14,3,4,**
Primary Accession	Q96JK9
Other Accession	586165
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 & 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.

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

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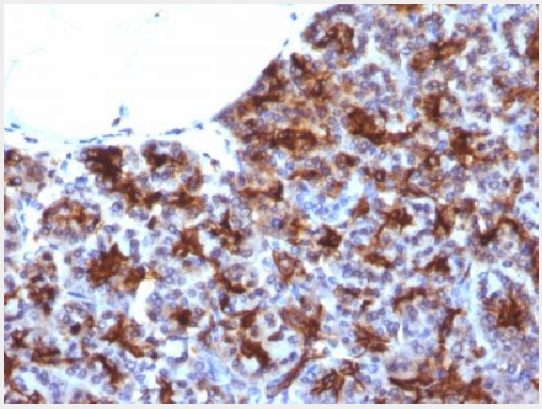
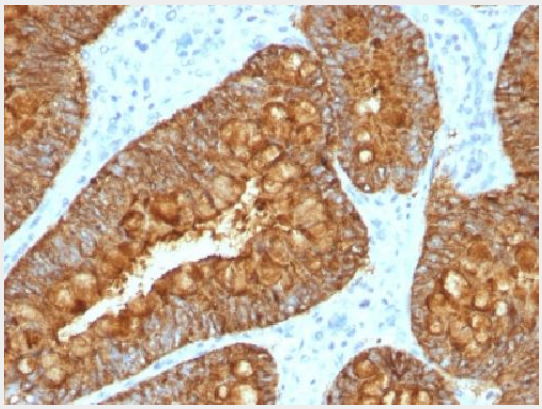
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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).

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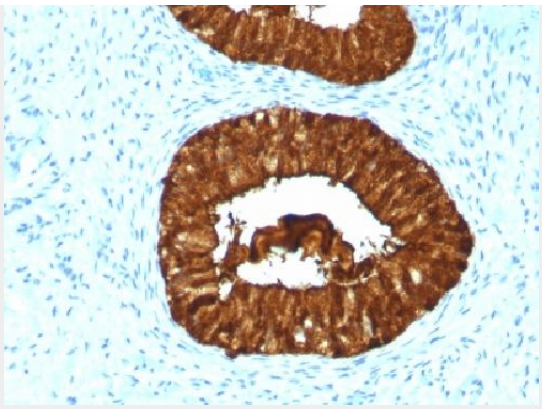
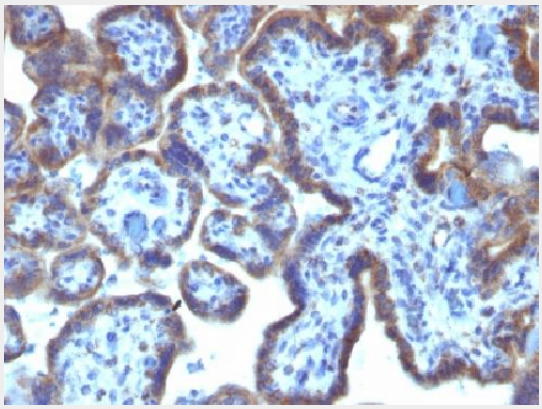


Formalin-fixed, paraffin-embedded Human Cervical Carcinoma stained with MAML3 Monoclonal Antibody (MAML3/1303).



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-Jκ; 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.