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Anti-MAML3 Antibody

Mouse Monoclonal Antibody
Catalog # AH13458

Product Information

Application	IHC-P, IF, FC
Primary Accession	Q96JK9
Other Accession	586165
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.

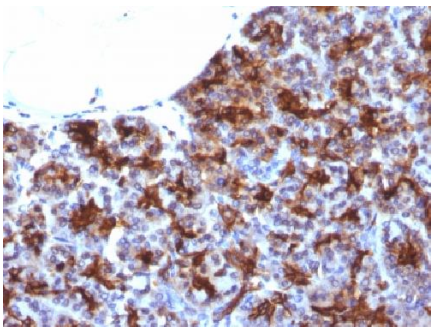
Protein Information

Name	MAML3 (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

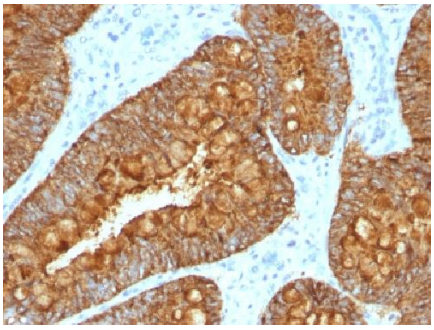
Background

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.

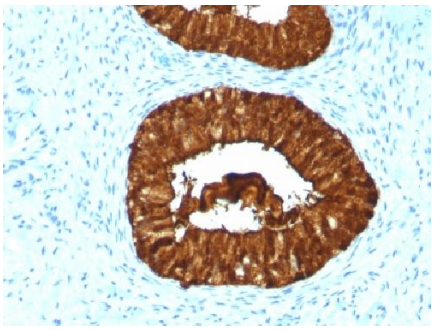
Images



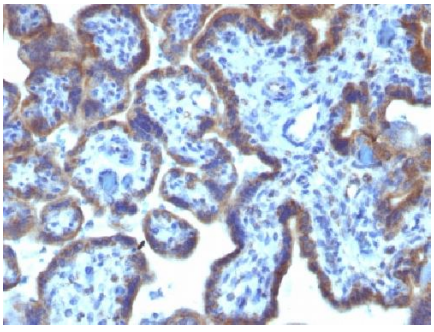
Formalin-fixed, paraffin-embedded Human Pancreas stained with MAML3 Monoclonal Antibody (MAML3/1303).



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'.