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Anti-MAML2 Antibody

Mouse Monoclonal Antibody
Catalog # AH13592

Product Information

Application	WB, IHC-P, IF, FC
Primary Accession	Q8IZL2
Other Accession	428214
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a
Clone Names	MAML2/1302
Calculated MW	125197

Additional Information

Gene ID	84441
Other Names	Mam-2; MAML2; Mastermind-like protein 2
Application Note	Flow Cytometry (0.5-1ug/million cells); Immunofluorescence (0.5-1ug/ml); ,Western Blotting (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-MAML2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

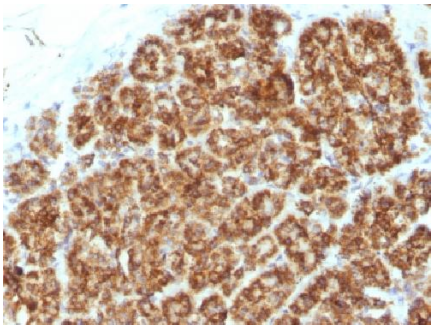
Name	MAML2
Synonyms	KIAA1819
Function	Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1. Potentiates activation by NOTCH3 and NOTCH4 more efficiently than MAML1 or MAML3.

Cellular Location	Nucleus speckle. Note=Nuclear, in a punctate manner
Tissue Location	Widely expressed with high levels detected in placenta, salivary gland and skeletal muscle

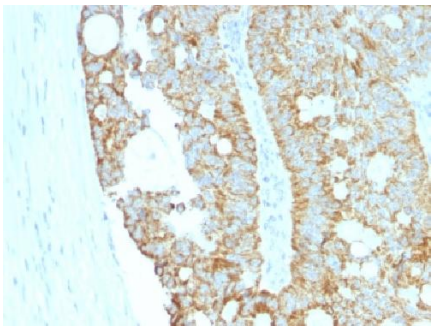
Background

MAML2 (mastermind-like protein 2), also known as MAM2, MAM3 or MLLMAML2, is a nuclear speckle protein that acts as a transcriptional co-activator for Notch receptors. The Notch signaling pathway influences cell fate by regulating the ability of precursor cells to properly respond to developmental signals. MAML2 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, MAML2 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 MAML2 is essential for proper Notch binding, the C-terminal domain of MAML2 is essential for transcriptional activation. A chromosomal aberration involving the gene encoding MAML2 is implicated in mucoepidermoid carcinomas, clear cell hidradenomas and benign Warthin tumors.

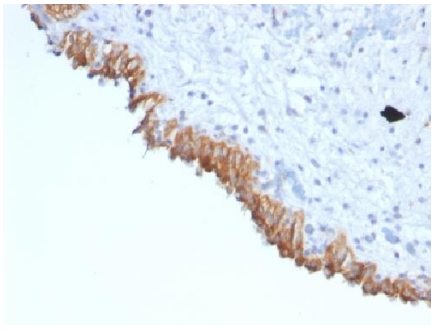
Images



Formalin-fixed, paraffin-embedded Human Pancreas stained with MAML2 Monoclonal Antibody (MAML2/1302).

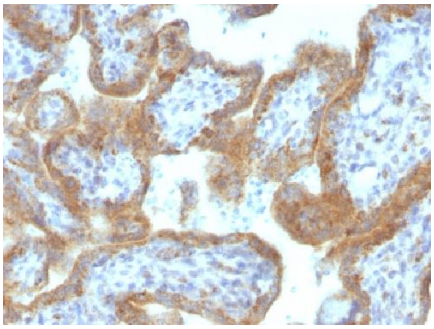


Formalin-fixed, paraffin-embedded Human Colon Carcinoma stained with MAML2 Monoclonal Antibody (MAML2/1302).



Formalin-fixed, paraffin-embedded Human Bladder Carcinoma stained with MAML2 Monoclonal Antibody (MAML2/1302).

Formalin-fixed, paraffin-embedded Human Placenta stained with MAML2 Monoclonal Antibody (MAML2/1302).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.