

Anti-MAML2 Antibody

Mouse Monoclonal Antibody Catalog # AH13592

Specification

Anti-MAML2 Antibody - Product Information

Application ,1,14,3,4, **Primary Accession 08IZL2** Other Accession 428214 Reactivity Human Host Mouse Clonality **Monoclonal** Isotype Mouse / IgG2a Calculated MW 125197

Anti-MAML2 Antibody - Additional Information

Gene ID 84441

Other Names

Mam-2; MAML2; Mastermind-like protein 2

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.

Anti-MAML2 Antibody - 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



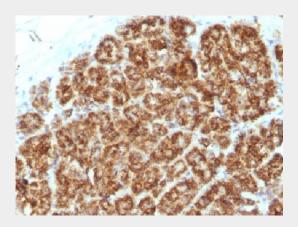
Widely expressed with high levels detected in placenta, salivary gland and skeletal muscle

Anti-MAML2 Antibody - Protocols

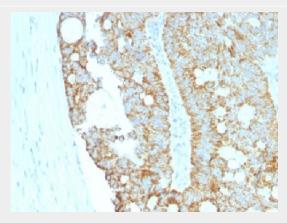
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-MAML2 Antibody - Images

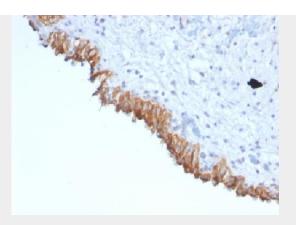


Formalin-fixed, paraffin-embedded Human Pancreas stained with MAML2 Monoclonal Antibody (MAML2/1302).

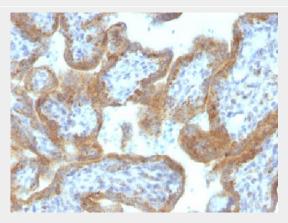


Formalin-fixed, paraffin-embedded Human Colon Carcinoma stained with MAML2 Monoclonal Antibody (MAML2/1302).





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).

Anti-MAML2 Antibody - 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.