

#12166 Store at -20°C

MAML1 (D3K7B) Rabbit mAb**Cell Signaling**
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, ChIP, ChIP-seq	H M R	Endogenous	130	Rabbit IgG	#Q92585	9794

Product Usage Information

For optimal ChIP and ChIP-seq results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:200
Chromatin IP	1:100
Chromatin IP-seq	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

MAML1 (D3K7B) Rabbit mAb recognizes endogenous levels of total MAML1 protein. This antibody does not detect MAML2 or MAML3.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp269 of human MAML1 protein.

Background

Mastermind-like (MAML) family of proteins are homologs of *Drosophila* Mastermind. The family is composed of three members in mammals: MAML1, MAML2, and MAML3 (1,2). MAML proteins form complexes with the intracellular domain of Notch (ICN) and the transcription factor CSL (RBP-Jκ) to regulate Notch target gene expression (3-5). MAML1 also interacts with myocyte enhancer factor 2C (MEF2C) to regulate myogenesis (6). MAML2 is frequently found to be fused with Mucoepidermoid carcinoma translocated gene 1 (MECT1, also known as WAMTP1 or TORC1) in patients with mucoepidermoid carcinomas and Warthin's tumors (7).

Background References

1. Wu, L. et al. (2002) *Mol. Cell Biol.* 22, 7688-7700.
2. Lin, S.E. et al. (2002) *J. Biol. Chem.* 277, 50612-50620.
3. Kitagawa, M. et al. (2001) *Mol. Cell Biol.* 21, 4337-4346.
4. Nam, Y. et al. (2003) *J. Biol. Chem.* 278, 21232-21239.
5. Nam, Y. et al. (2006) *Cell* 124, 973-983.
6. Shen, H. et al. (2006) *Genes Dev.* 20, 675-688.
7. Tonon, G. et al. (2003) *Nat. Genet.* 33, 208-213.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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