


Product datasheet

Anti-MAML2 antibody ab65091

2 Images

Overview

Product name	Anti-MAML2 antibody
Description	Rabbit polyclonal to MAML2
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Cow 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1100 to the C-terminus of Human MAML2. Read Abcam's proprietary immunogen policy (Peptide available as ab68318 .)
Positive control	iN Western Blot, ab65091 gave a positive signal in HeLa and Jurkat whole cell lysates. In IF, this antibody gave a positive result in formaldehyde fixed HeLa cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab65091** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

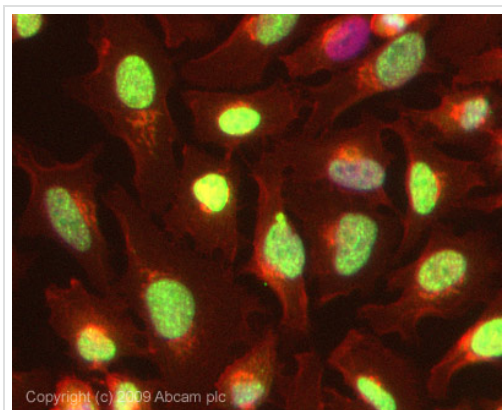
Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 160 kDa (predicted molecular weight: 125 kDa).

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.

Target

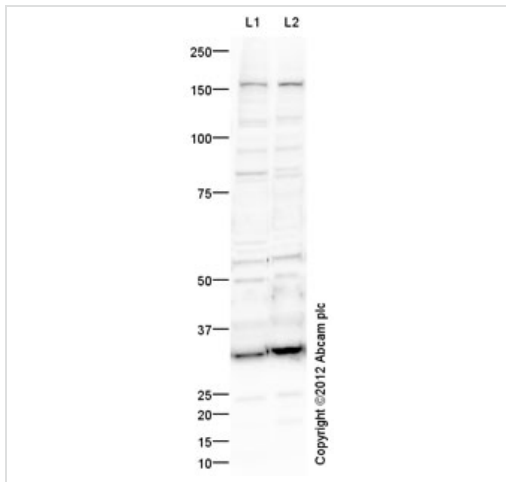
Function	Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1. Potentiates activation by NOTCH3 and NOTCH4 more efficiently than MAML1 or MAML3.
Tissue specificity	Widely expressed with high levels detected in placenta, salivary gland and skeletal muscle.
Involvement in disease	Note=A chromosomal aberration involving MAML2 is found in mucoepidermoid carcinomas, benign Warthin tumors and clear cell hidradenomas. Translocation t(11;19)(q21;p13) with CRTC1/MECT1. The fusion protein consists of the N-terminus of CRTC1 joined to the C-terminus of MAML2. The reciprocal fusion protein consisting of the N-terminus of MAML2 joined to the C-terminus of CRTC1 has been detected in a small number of mucoepidermoid carcinomas.
Sequence similarities	Belongs to the mastermind family.
Domain	The C-terminal domain is required for transcriptional activation.
Cellular localization	Nucleus speckle. Nuclear, in a punctate manner.

Images



Immunocytochemistry/ Immunofluorescence -
MAML2 antibody (ab65091)

ICC/IF image of ab65091 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab65091, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) Hek293, HepG2, MCF-7 cells at 1µg/ml.



Western blot - Anti-MAML2 antibody (ab65091)

All lanes : Anti-MAML2 antibody (ab65091)
at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 125 kDa

Observed band size : 160 kDa

Additional bands at : 30 kDa, 55 kDa, 80 kDa. We are unsure as to the identity of these extra bands.

Exposure time : 12 minutes

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