ENCODE DCC Antibody Validation Document

Date of Submission: 9/14/12

Name: Trupti Kawli

Email: trupti@stanford.edu

Lab: Snyder

Antibody Name: Max (C-17) Antibody: sc-197

Target: Max

Company/ Source: Santa Cruz Biotechnology

Catalog Number, database ID, laboratory: sc-197

Lot Number: J0809

Antibody Description: rabbit polyclonal IgG, 200 µg/ml
epitope mapping at the C-terminus of Max of human origin
recommended for detection of both Max p21 and p22 of mouse, rat and human origin

Target Description: The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation.

Species Target: Mouse

Species Host: Rabbit

Validation Method #1: Immunoprecipitation

Validation Method #2: Motif Enrichment

Purification Method: Affinity

Polyclonal/ Monoclonal: Polyclonal

Vendor URL: http://www.scbt.com/datasheet-197-max-c-17-antibody.html

Reference (PI/ Publication Information):

Please complete the following for antibodies to histone modifications:
if your specifications are not listed in the drop-down box,
please write-in the appropriate information

Histone Name | AA modified | AA Position | Modification

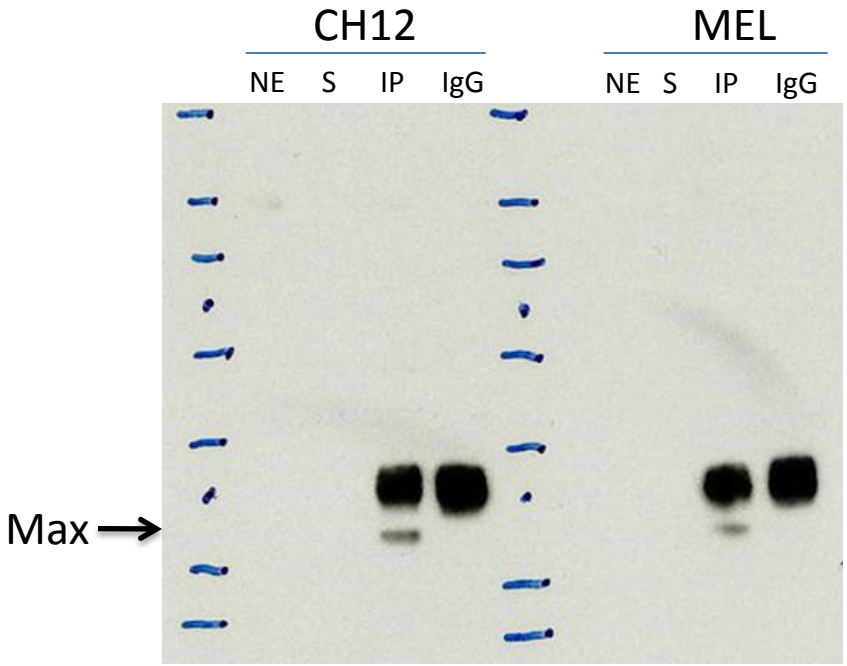
Validation #1
Analysis

Immunoprecipitation of CH12 and MEL numclear extracts using anti-Max antibody (sc-197) specifically and efficiently enriched a single band of the expected molecular weight of Max (~21 kD).

Insert Validation Image (click here)

Antibody: Max Source: Santa Cruz Biotech sc-197
Epitope: Max Antibody (C-17) is a rabbit polyclonal IgG, epitope mapping at the C-terminus of Max of human origin

Validation 1: Immunoprecipitation (IP) in both CH12 and MEL cell lines



Arrow indicates immunoprecipitated band of expected size of Max in both CH12 and MEL cell lines (~21 kDa). Second antibody used light chain specific, so only one antibody band.

NE: nuclear extract
S: supernatant after IP
IP: IP with tested antibody
IgG: IP with control IgG

Validation #2 Analysis	sc-197 has been validated by motif enrichment analysis of ChIP-Seq data rom Human cell lines. See submitted documents for human cell lines for details.

Insert Validation Image (Click here)

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