## ENCODE DCC Antibody Validation Document

**Date of Submission**: 9/14/12

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### 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) transcription factors. It is able to form homodimers and heterodimers with other family members, 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


**Reference (PI/Publication Information)**: 

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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*

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

Validation #1
Analysis
**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
sc-197 has been validated by motif enrichment analysis of ChIP-Seq data from Human cell lines. See submitted documents for Human cell lines for details.