ENCODE Antibody Validation Documentation
Transcription factor: ETS1 (GeneID 2113)

From: Myers Lab, HudsonAlpha Institute for Biotechnology
Contact Person: Dr. Florencia Pauli (fpauli@hudsonalpha.org)

Transcription factor: ETS1 (GeneID 2113; ~55 kDa)

Antibody: ETS1 (C-20), Santa Cruz Biotechnology (sc-350)
Rabbit polyclonal, epitope mapping at the C-terminus of ETS1 of human origin

Validation 1: Immunoblot Analysis

For an antibody to meet ENCODE validation standards, a single band of the predicted size, or a band of no less than half the total signal, must be detected in a lane on a Western blot.

a. Vendor immunoblot analysis

Figure Legend: Western blot analysis of ETS1 expression in KNRK nuclear extract.
b. Myers Lab immunoblot analysis

Western blot protocol

Whole cell lysates were immunoprecipitated using primary antibody, and the IP fraction was loaded on a 12% acrylamide gel and separated with a Bio-Rad PROTEAN II xi system. After separation, the samples were transferred to a nitrocellulose membrane with an Invitrogen iBlot system. Blotting with primary (same as that used for IP) and secondary HRP-conjugated antibodies was performed on an Invitrogen BenchPro 4100 system. Visualization was achieved using SuperSignal West Femto solution (Thermo Scientific).

Figure Legend: ETS1 immunoblot: IP-western with sc-350 ETS1 antibody in whole cell lysate of GM12878. ETS1 band is indicated at ~52 kDa.

Validation 2: In progress