

ENCODE Antibody Validation Documentation
**Transcription factor: GA binding protein transcription factor,
alpha subunit 60kDa (GeneID 2551)**

From: Myers Lab, HudsonAlpha Institute for Biotechnology

Contact Person: Dr. Florencia Pauli (fpauli@hudsonalpha.org)

Transcription factor: GABPA (GeneID 2551; ~51 kDa)

Antibody: GABP- α (G-1), Santa Cruz Biotechnology (sc-28312)

Mouse monoclonal, raised against amino acids 1-180 of GABP- α of human origin

Web: <http://www.scbt.com/datasheet-28312-gabp-alpha-g-1-antibody.html>

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

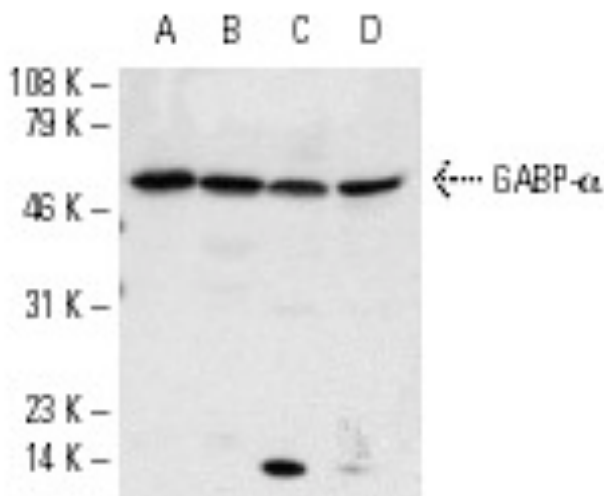


Figure Legend: Western blot analysis of GABP- α expression in HeLa (A), A-431 (B), NIH/3T3 (C) and 3611-RF (D) nuclear extracts.

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 using a Bio-Rad Trans-Blot Electrophoretic Transfer system. Standard western blot protocol was used to probe the membrane with the primary antibody (same antibody as used for IP), and an HRP-conjugated secondary antibody and SuperSignal West Femto solution (Thermo Scientific) were used to detect the immunoprecipitated proteins.

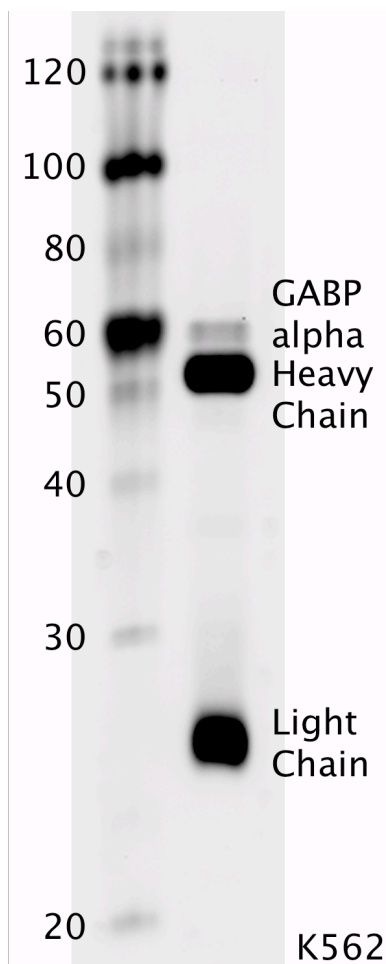


Figure Legend: GABPA immunoblot: IP-western with sc-28312 GABP- α antibody in whole cell lysate of K562. Heavy chain and light chain of IgG are indicated, and GABPA band is indicated at ~60 kDa.

Validation 2: In progress