

ENCODE DCC Antibody Validation Document

Date of Submission

Name:

Email:

Lab

Antibody Name:

Target:

Company/
Source:

Catalog Number, database ID, laboratory

Lot Number

Antibody
Description:

Target
Description:

Species Target

Species Host

Validation Method #1

Validation Method #2

Purification
Method

Polyclonal/
Monoclonal

Vendor URL:

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*

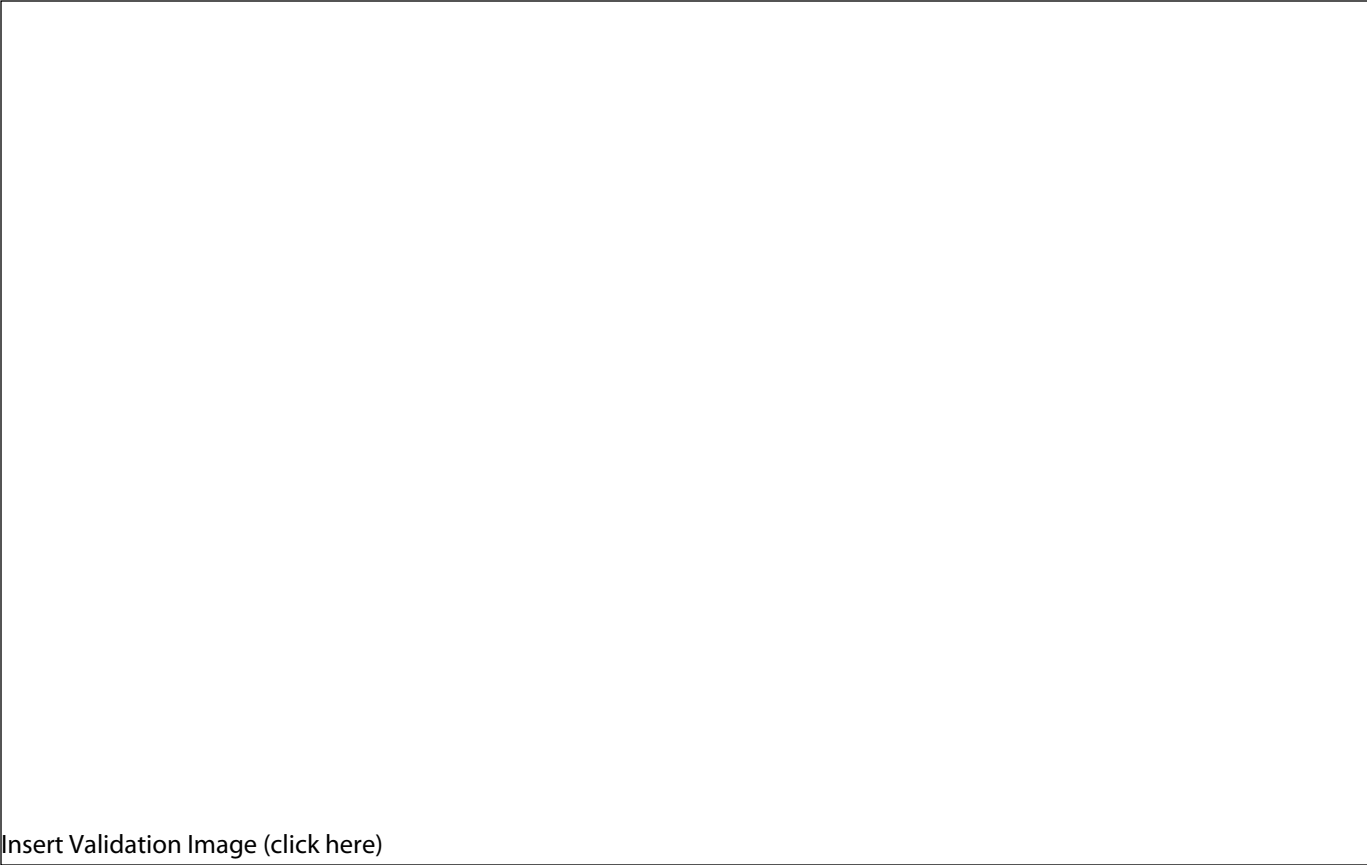
Histone Name

AA modified

AA Position

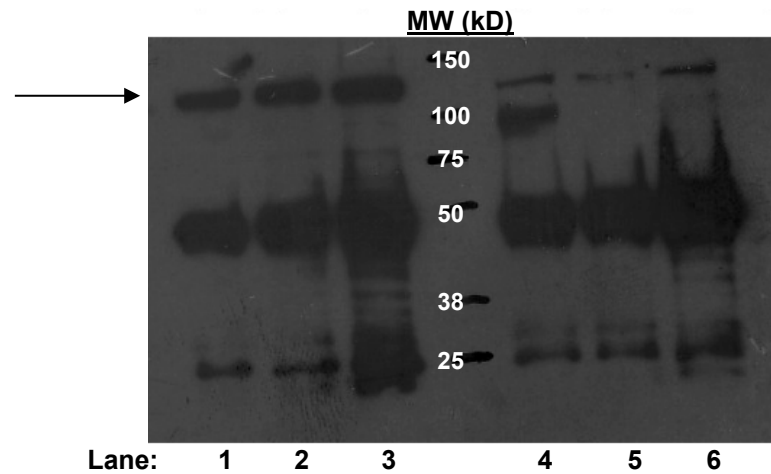
Modification

Validation #1
Analysis



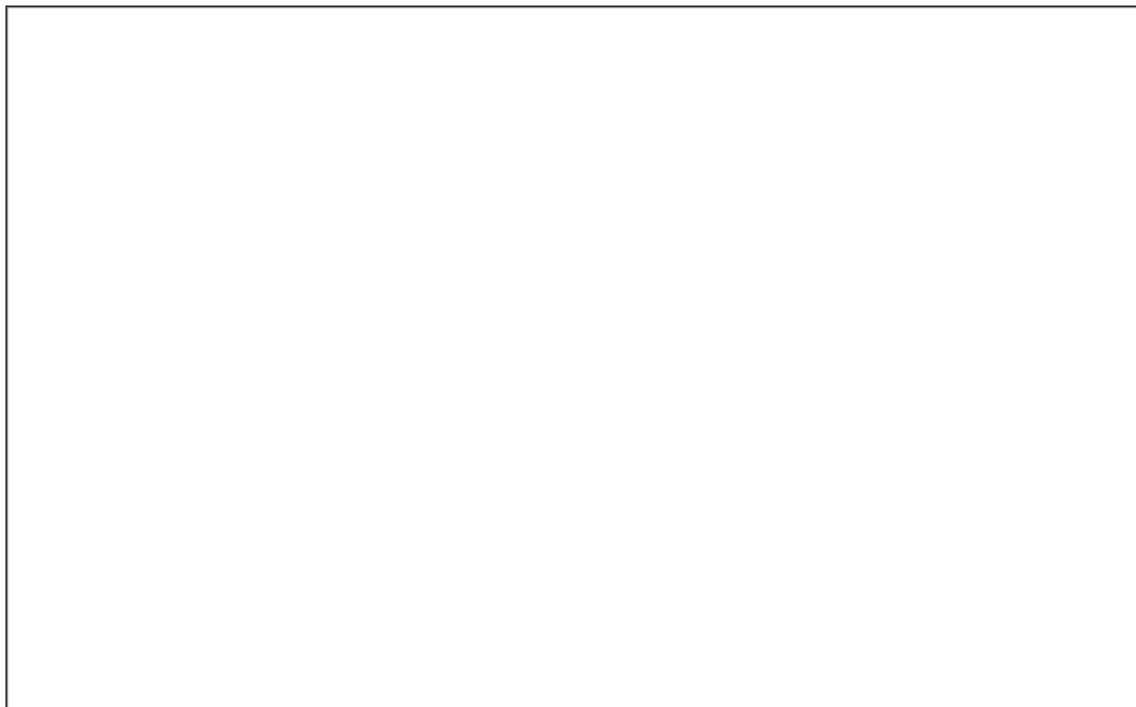
Insert Validation Image (click here)

sc-476 (STAT2) Immunoprecipitation



Immunoprecipitation of STAT2 from HeLa S3 cells using sc-476. Lanes 1-3; material immunoprecipitated with sc-476, lanes 4-6: material immunoprecipitated using control IgG. 1ug of antibody was used for immunoprecipitations in lanes 1 and 4, 2ug in lanes 2 and 5, 4 ug in lanes 3 and 6. Arrow indicates band consistent with the expected size of STAT2.

Validation #2
Analysis



Insert Validation Image (Click here)

Validation 2: Comparison to alternate member of known biochemical complex

Interferon α treatment	STAT1 Peak count	STAT2 Peak count	Fraction overlapping
30 min.	258	427	0.99
6 hr.	344	610	1

K562 cells treated with Interferon- α for the indicated times were used for ChIP-seq with antibody sc-345 (STAT1) or antibody sc-476 (STAT2). Peaks were called from replicate experiments using PeakSeq with a .01 q-value. Comparisons between experiments were made according to standard ENCODE replicate comparison parameters (http://genome.ucsc.edu/ENCODE/protocols/dataStandards/ChIP_DNase_FAIRE_DNAme_v2_2011.pdf; reported above is the fraction of the top 40% of STAT1 peaks that are found in the full list of STAT2 peaks. The reciprocal comparison was made with similar results.).