

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*

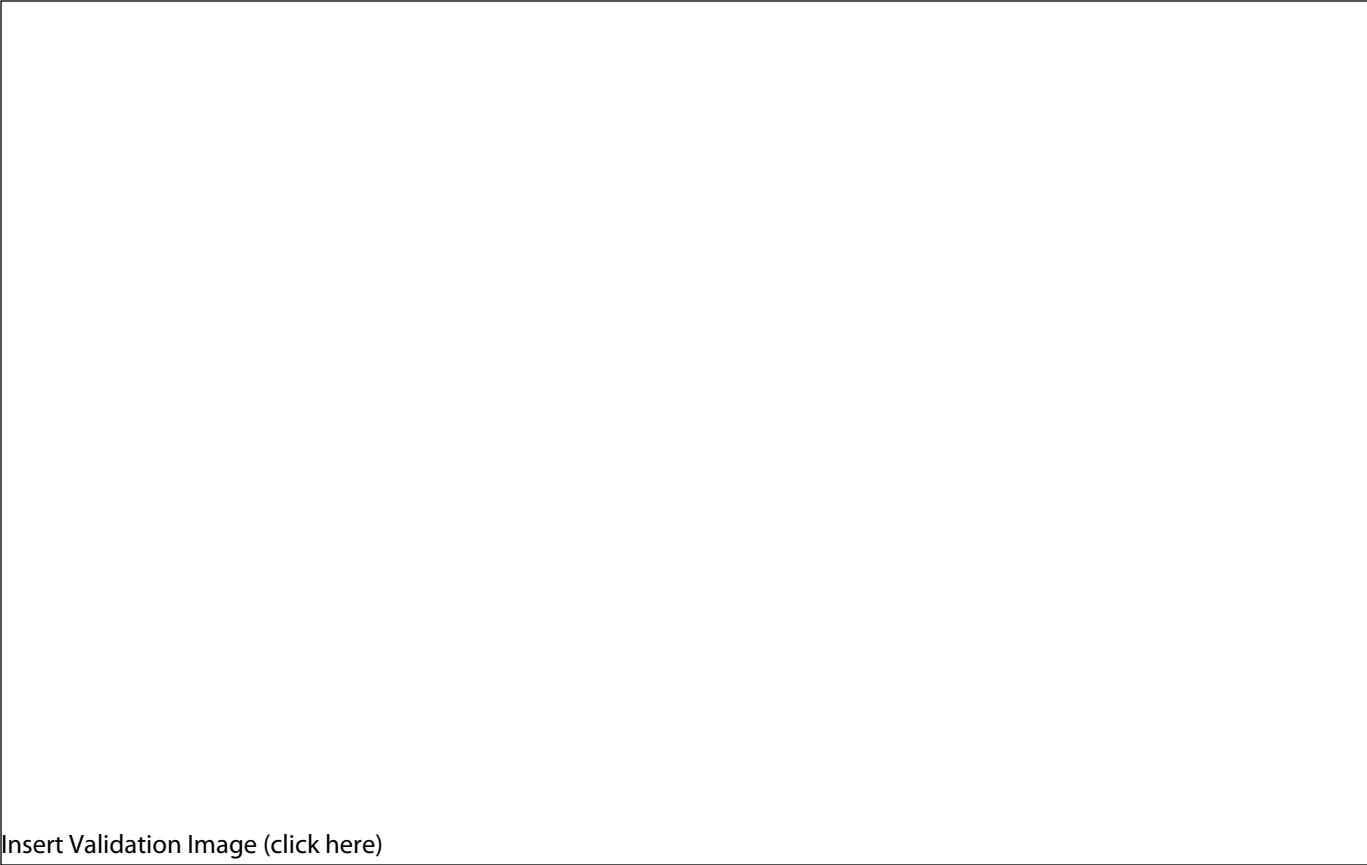
Histone Name

AA modified

AA Position

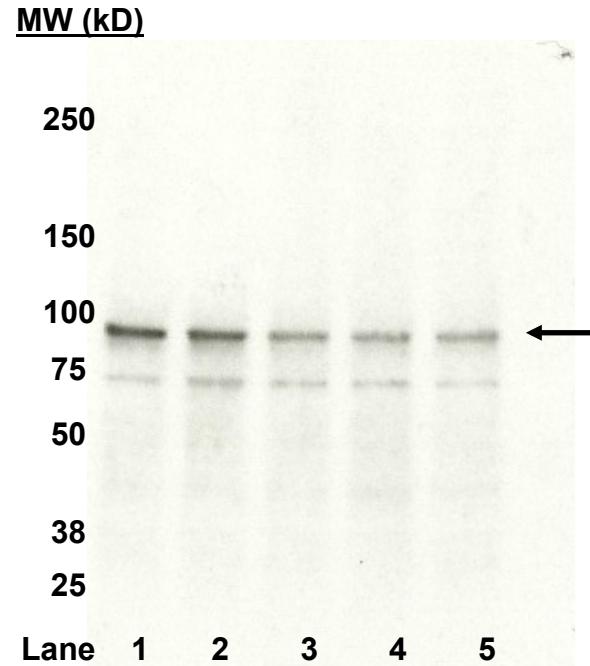
Modification

Validation #1
Analysis



Insert Validation Image (click here)

sc-345 (STAT1) Immunoblot



Western blot using sc-345. Lanes contain nuclear lysates from HeLa S3 cells treated with interferon- γ for 0 minutes (lane 1), 10 min. (lane 2), 20 min. (lane 3), 30 min. (lane 4), 60 min. (lane 5), Arrow indicates band consistent with the size expected for STAT1.

Validation #2
Analysis



Insert Validation Image (Click here)

- **Table 1.** STAT1/2 motif enrichment.

Cell Line	Motif Enrichment (log2)	Enrichment p-value (-log10)	Fraction of peaks containing motif
STAT1_HeLa-S3_IFN γ 30	3.82013 (STAT_known10)	1652.68 (STAT_known12)	0.339567 (STAT_known12)
STAT1_K562_IFN α 30	4.06578 (STAT_known10)	171.64 (STAT_known6)	0.322124 (STAT_known12)
STAT1_K562_IFN γ 30	5.05755 (STAT_known10)	605.77 (STAT_known6)	0.588235 (STAT_known12)
STAT1_K562_IFN γ 6h	4.74521 (STAT_known10)	535.18 (STAT_known6)	0.46729 (STAT_known12)
STAT2_K562_IFN α 30	3.19162 (STAT_known10)	172.42 (STAT_known12)	0.198288 (STAT_known12)

- **Figure 2.** Motif consensus sequences and position weight matrices for highly enriched STAT motif.

