

# 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*

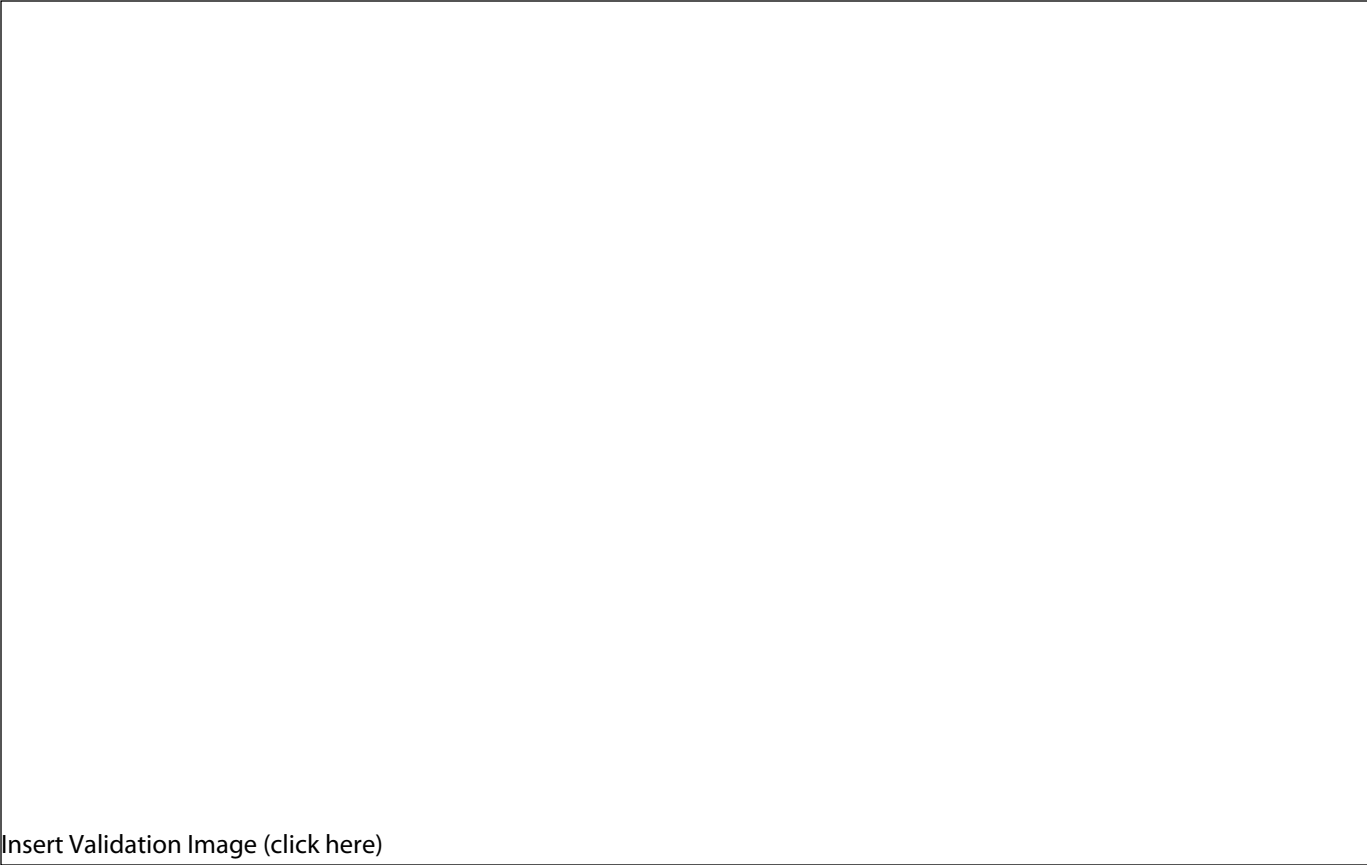
Histone Name

AA modified

AA Position

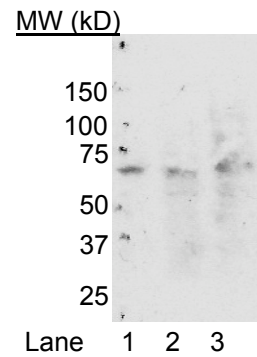
Modification

Validation #1  
Analysis



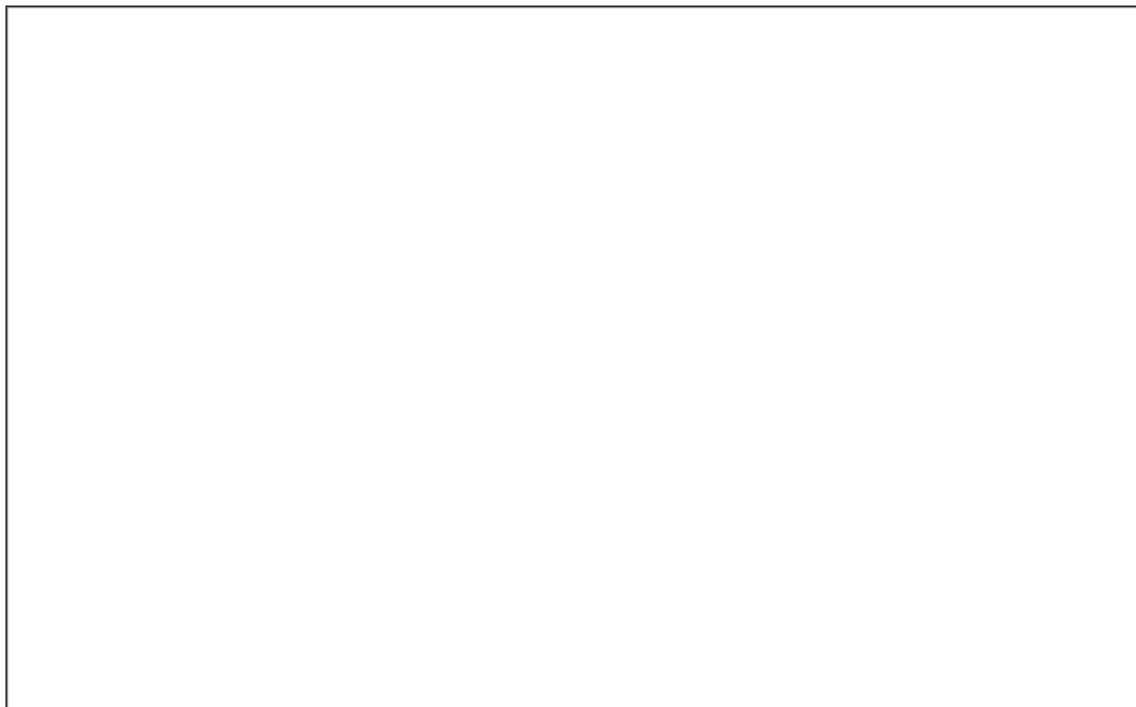
Insert Validation Image (click here)

# Antibody ab55744 (NRF1) Immunoblot



Western blot using ab55744 against NRF1. Lanes contain nuclear lysates from GM12878 cells (Lane 1), K562 cells (Lane 2), and HeLa S3 cells (Lane 3).

Validation #2  
Analysis



Insert Validation Image (Click here)

- **Table 1.** Nrf1 motif enrichment.

Cell Line	Motif Enrichment (log2)	Enrichment p-value (-log10)	Fraction of peaks containing motif
GM12878	3.35792	1875.84	0.492133
H1-hESC	3.65494	1960.44	0.577306
HeLa S3	3.78334	1359.18	0.624064
HepG2	3.91631	1074.85	0.659108
K562	3.63299	1654.7	0.546256

- **Figure 2.** Motif consensus sequences and position weight matrices for highly enriched Nrf1 motif.

**NRF1\_known1**



```
>Nrf1_known1 Nrf-1_transfac_M00652 -
```

Position/ Consensus	<u>A</u>	<u>C</u>	<u>G</u>	<u>T</u>
C	0.000000	1.000000	0.000000	0.000000
G	0.142857	0.000000	0.857143	0.000000
C	0.000000	1.000000	0.000000	0.000000
R	0.571429	0.000000	0.285714	0.142857
T	0.000000	0.000000	0.000000	1.000000
G	0.000000	0.000000	1.000000	0.000000
C	0.000000	1.000000	0.000000	0.000000
G	0.000000	0.000000	1.000000	0.000000
C	0.000000	1.000000	0.000000	0.000000
R	0.571429	0.000000	0.428571	0.000000