

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

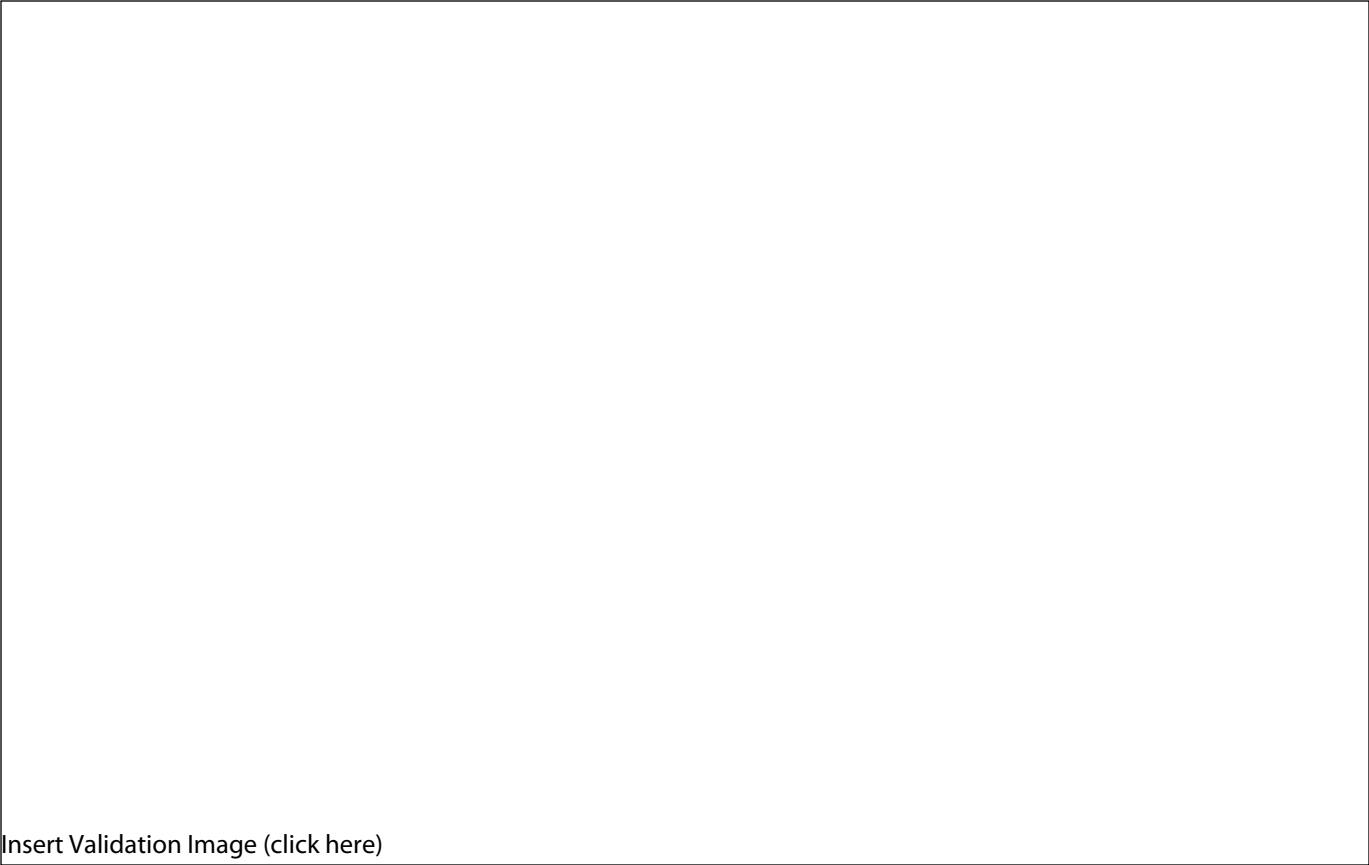
AA Position

Modification

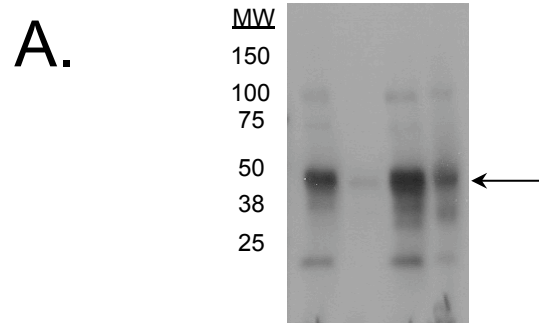
Validation #1
Analysis



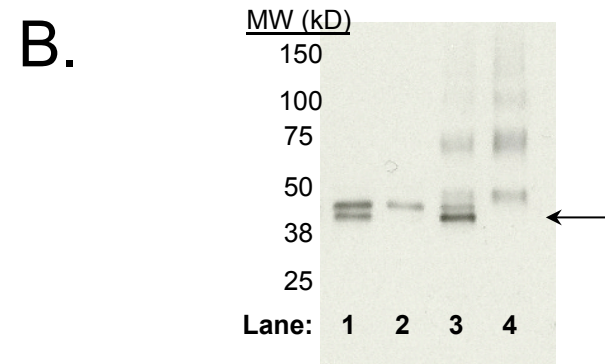
Insert Validation Image (click here)



Validation 1: Immunoblot/immunoprecipitation with sc-150 (CEBP β)

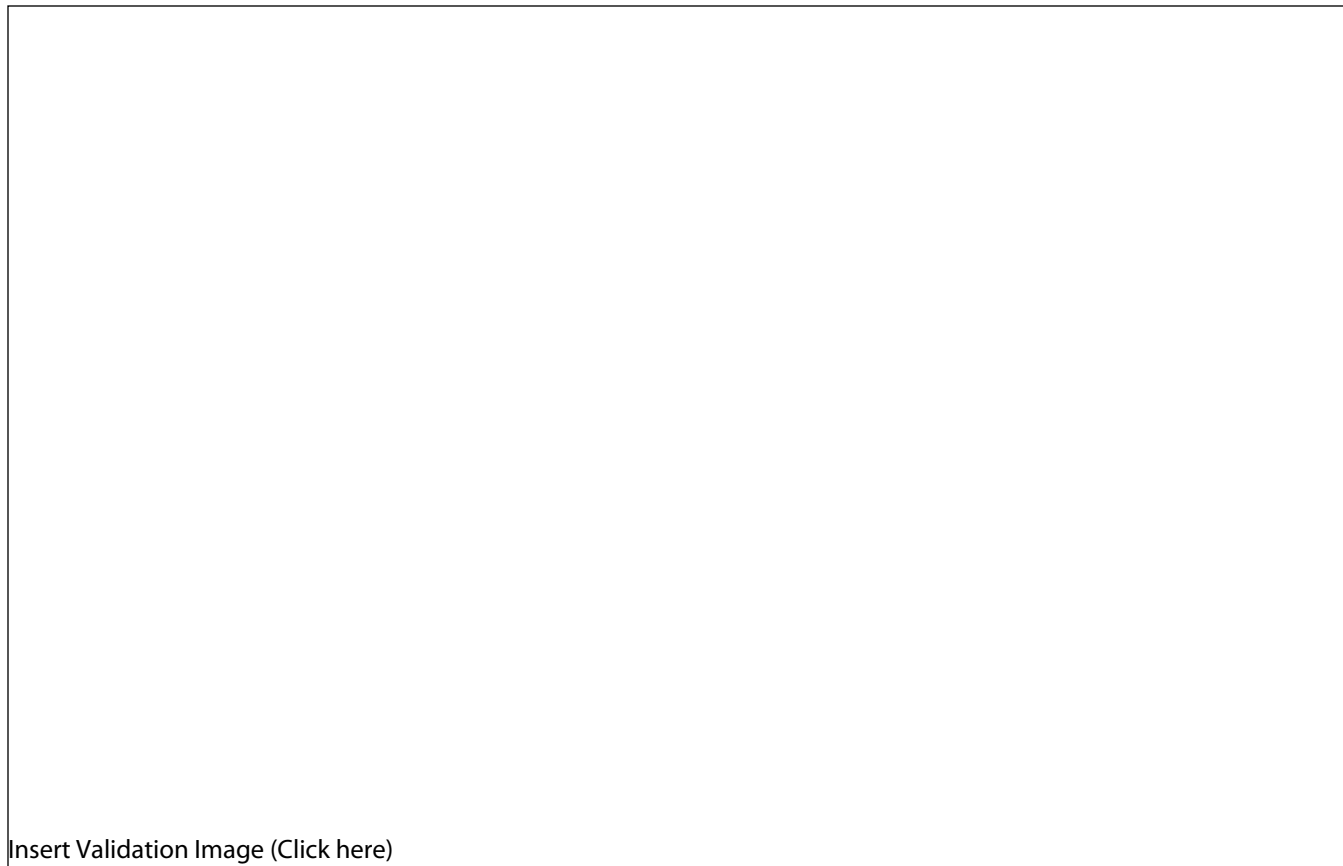
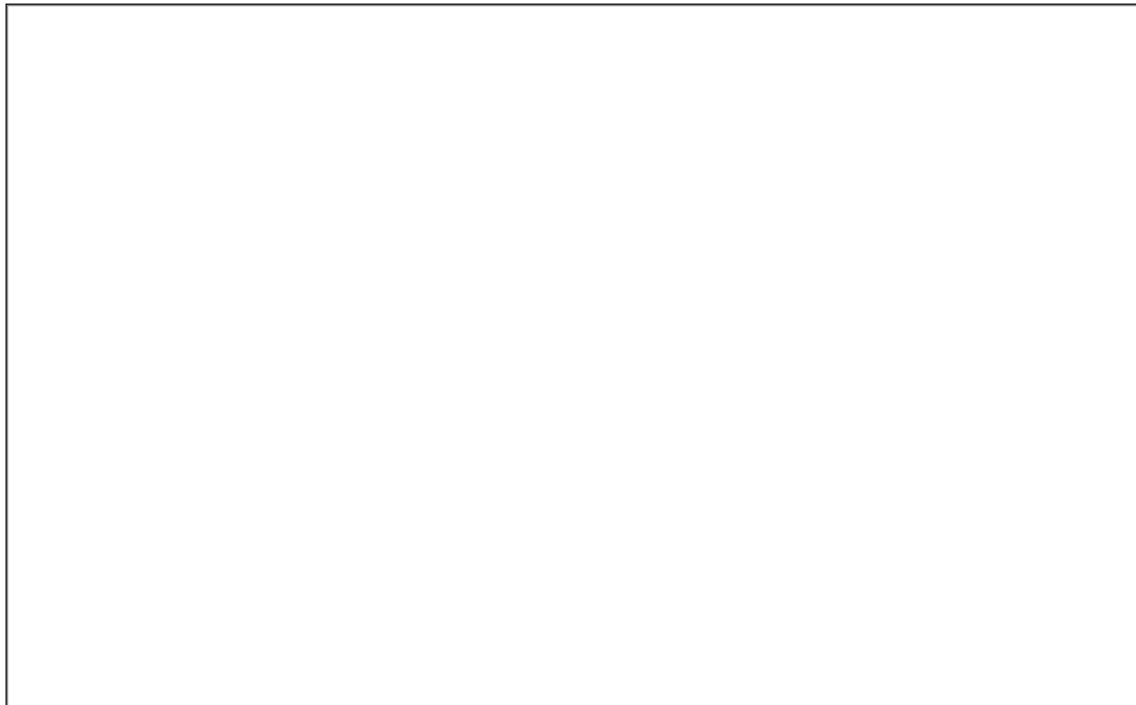


Arrow indicates band consistent with expected size (~40 kD) of CEBP β in nuclear lysates from (left to right): K562, GM12878, HeLaS3, and HepG2 cell lines.



Arrow indicates immunoprecipitated band of expected size from HeLa S3 nuclear lysates. Lane 1= HeLa S3 nuclear lysate, Lane 2= supernatant from HeLa S3 immunoprecipitation (IP), Lane 3= bound material from HeLa S3 IP, Lane 4= bound material from control IgG IP from HeLa S3.

Validation #2
Analysis



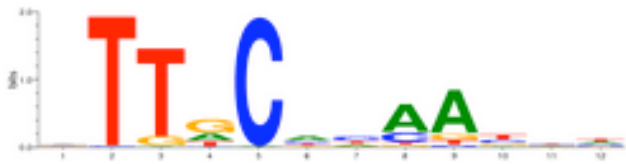
Insert Validation Image (Click here)

Table 1. CEBP/b motif enrichment.

Cell Line	Motif Enrichment (log2)	Enrichment p-value (-log10)	Fraction of peaks containing motif
HeLa-S3	2.86562 (CEBPB_known5)	5053.02 (CEBPB_known5)	0.37903 (CEBPB_known1)
HepG2	3.3304 (CEBPB_known5)	2358.53 (CEBPB_known5)	0.433258 (CEBPB_known5)
HepG2 (forskolin)	3.36494 (CEBPB_known5)	5209.69 (CEBPB_known5)	0.47111 (CEBPB_known5)
K562	3.24554 (CEBPB_known5)	3812.18 (CEBPB_known5)	0.429311 (CEBPB_known5)

Figure 2. Motif consensus sequences and position weight matrices for highly enriched CEBP/b motifs.

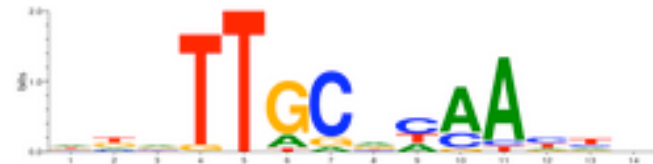
CEBP/b_known1



>CEBPB_known1 C/EBP_transfac_M00912 +

Position/ Consensus	<u>A</u>	<u>C</u>	<u>G</u>	<u>T</u>
N	0.359551	0.213483	0.202247	0.224719
T	0.000000	0.011236	0.000000	0.988764
T	0.011236	0.000000	0.101124	0.887640
D	0.269663	0.022472	0.505618	0.202247
C	0.011236	0.988764	0.000000	0.000000
H	0.426966	0.258427	0.112360	0.202247
H	0.224719	0.393258	0.089888	0.292135
M	0.651685	0.235955	0.056180	0.056180
A	0.764044	0.033708	0.112360	0.089888
B	0.089888	0.269663	0.202247	0.438202
H	0.213483	0.280899	0.157303	0.348315
H	0.303371	0.280899	0.089888	0.325843

CEBP/b_known5



>CEBPB_known5 C/EBPbeta_transfac_M00117 +

Position/ Consensus	<u>A</u>	<u>C</u>	<u>G</u>	<u>T</u>
D	0.352941	0.117647	0.235294	0.294118
K	0.117647	0.117647	0.352941	0.411765
V	0.352941	0.235294	0.294118	0.117647
T	0.000000	0.000000	0.058824	0.941176
T	0.000000	0.000000	0.000000	1.000000
R	0.176471	0.000000	0.764705	0.058824
C	0.058824	0.823529	0.117647	0.000000
D	0.352941	0.117647	0.352941	0.176471
H	0.235294	0.470588	0.000000	0.294118
M	0.705882	0.235294	0.058824	0.000000
A	0.882352	0.058824	0.000000	0.058824
Y	0.117647	0.411765	0.117647	0.352941
H	0.176471	0.235294	0.117647	0.470588
N	0.235294	0.294118	0.294118	0.176471