

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*

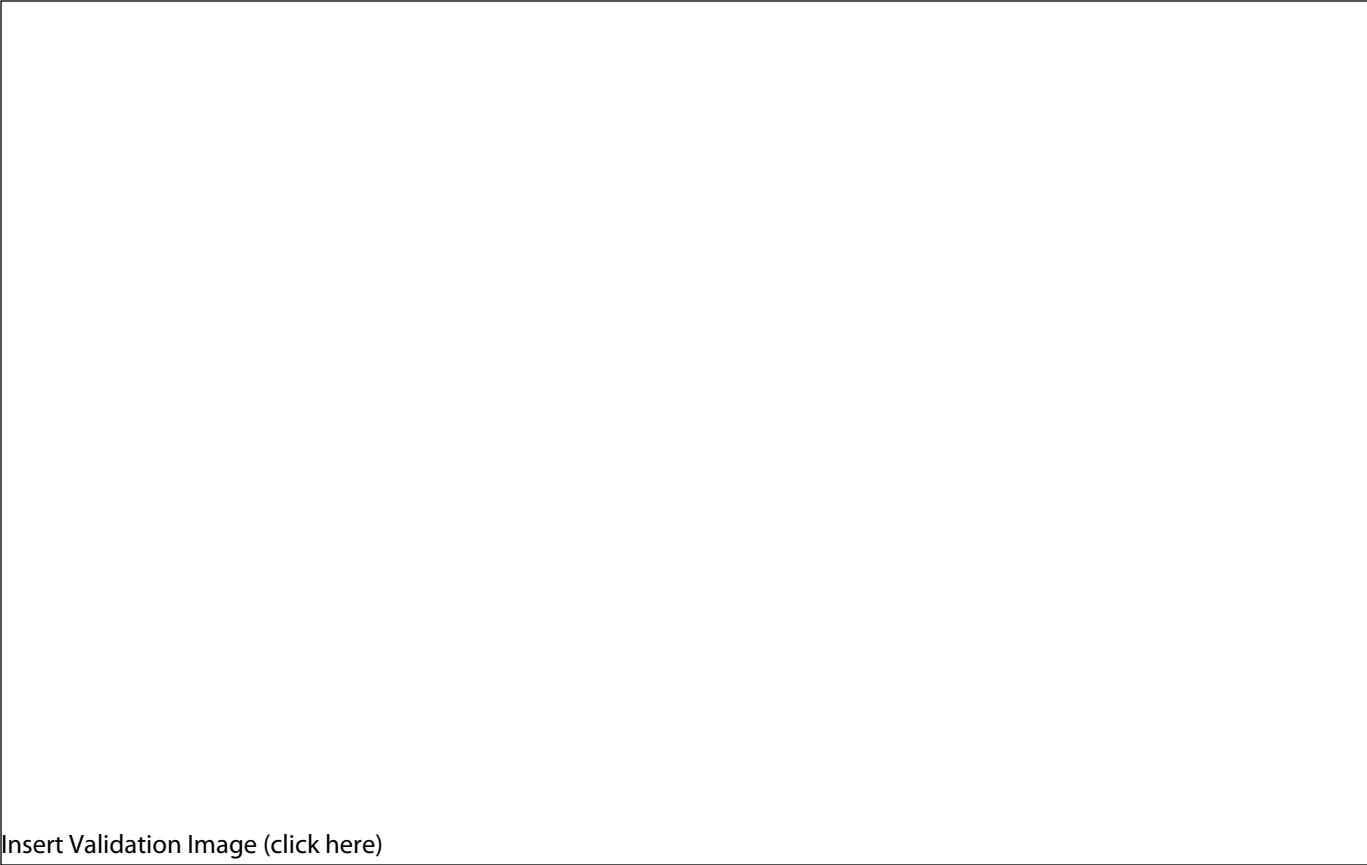
Histone Name

AA modified

AA Position

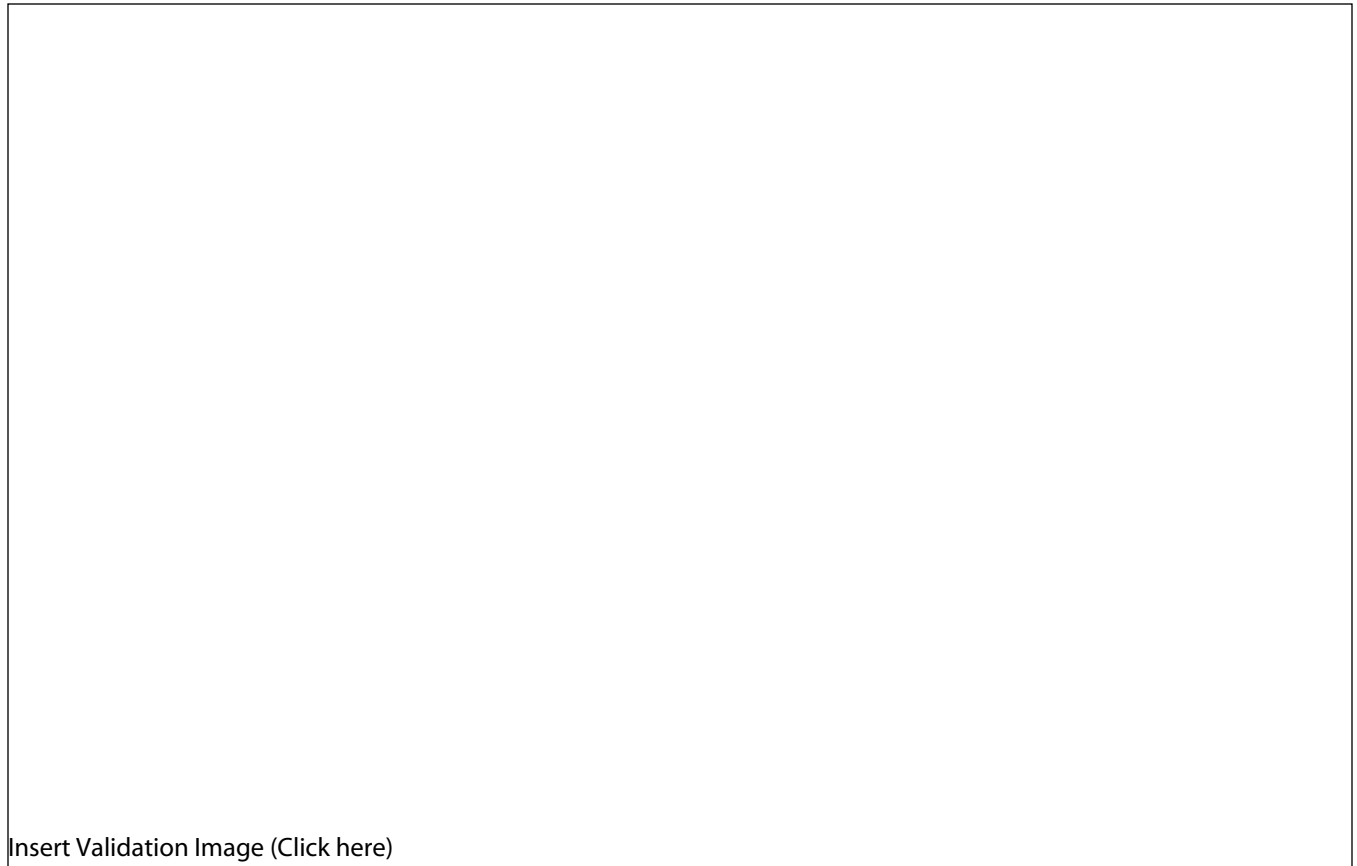
Modification

Validation #1
Analysis



Insert Validation Image (click here)

Validation #2
Analysis



Insert Validation Image (Click here)

Validation 2: NR2F2_(SC-271940) IP-Mass Spec of the 45 kDa band and the 80-90 kDa bands identified in IP-Western in Validation 1. Target protein (NR2F2) was identified in the 45 kDa in entry number 15a with 0.9999% probability.

Table 1: Mass spec results for 45 kDa band.

Entry no.	Protein	Protein probability	Percent share of spectrum id's	Description
1	UniRef100_P49411	1	0.83	Elongation factor Tu, mitochondrial
6a	UniRef100_B2RA03,UniRef100_P05783	1	4.4	cDNA, FLJ94640, highly similar to Homo sapiens keratin 18 (KRT18), mRNA
7a	UniRef100_B4DTC3,UniRef100_B9ZVU1,UniRef100_Q12771,UniRef100_Q14103,UniRef100_Q14103-2,UniRef100_Q14103-3,UniRef100_Q14103-4,UniRef100_UPI0001D3B53A	1	1.29	cDNA FLJ54150, highly similar to Heterogeneous nuclear ribonucleoprotein D0
8a	UniRef100_B4DTG2,UniRef100_B4DUP0,UniRef100_P26641,UniRef100_UPI0001AE71BA	1	0.66	cDNA FLJ56389, highly similar to Elongation factor 1-gamma
9a	UniRef100_C5I WV5,UniRef100_P00761	1	7.74	Trypsinogen
10a	UniRef100_C9JAA5,UniRef100_Q3ZCM7,UniRef100_Q5SQY0,UniRef100_Q5SQY1,UniRef100_UPI0001B1A4B1	1	1.14	Putative uncharacterized protein ENSP00000418077
11a	UniRef100_P02769	1	9.84	Serum albumin
12a	UniRef100_P04264	1	9.08	Keratin, type II cytoskeletal 1
12b	UniRef100_P35908	1	6.08	Keratin, type II cytoskeletal 2 epidermal
12c	UniRef100_P05787,UniRef100_Q969I0	1	3.39	Keratin, type II cytoskeletal 8
12d	UniRef100_B0YJC4,UniRef100_P08670,UniRef100_Q53HU8	1	1.35	Vimentin variant 3
13a	UniRef100_P13645,UniRef100_UPI00017BCE7F	1	9.64	Keratin, type I cytoskeletal 10
13b	UniRef100_P35527	1	4.78	Keratin, type I cytoskeletal 9
13c	UniRef100_P08727	1	1.12	Keratin, type I cytoskeletal 19
13d	UniRef100_P08779	0.9998	0.36	Keratin, type I cytoskeletal 16
13e	UniRef100_P02533	0.9987	0.36	Keratin, type I cytoskeletal 14
14a	UniRef100_P19474	1	5.53	52 kDa Ro protein
15a	UniRef100_P24468,UniRef100_Q3KQR7,UniRef100_Q7YRQ3	0.9999	0.31	NR2F2 protein
16a	UniRef100_P31689,UniRef100_Q86TL9	1	0.82	DnaJ homolog subfamily A member 1
17a	UniRef100_P52597	1	2.15	Heterogeneous nuclear ribonucleoprotein F, N-terminally processed
18a	UniRef100_Q562R1	0.9996	0.72	Beta-actin-like protein 2
19a	UniRef100_UPI0001AE6ACC	0.9997	0.98	UPI0001AE6ACC related cluster
20	UniRef100_A8K3B0,UniRef100_B4DUJ6,UniRef100_B7Z2X9,UniRef100_D3DTL2,UniRef100_P06733,UniRef100_P09104,UniRef100_P13929,UniRef100_P13929-2,UniRef100_P13929-3,UniRef100_UPI00015552D9,UniRef100_UPI000186E3EE,UniRef100_UPI0001AE669E,UniRef100_UPI0001AE669F	0.9887	0.17	Enolase
21	UniRef100_A9Z0R7,UniRef100_B0QYK0,UniRef100_B0QYK1,UniRef100_C3UMV2,UniRef100_C3UMV3,UniRef100_C3UMV4,UniRef100_Q01844,UniRef100_Q4R3Q5,UniRef100_Q71E78,UniRef100_Q96FE8,UniRef100_Q96MN4,UniRef100_Q96MX4,UniRef100_Q9BWA2	0.9887	0.17	EWSR1/ZNF384 fusion protein (Fragment)
22	UniRef100_B3KNL2,UniRef100_B3KQ59,UniRef100_Q9Y230	0.9887	0.5	RuvB-like 2 (E. coli), isoform CRA_d

23	UniRef100_060884	0.9887	0.33	DnaJ homolog subfamily A member 2
24	UniRef100_B3KUN3,UniRef100_P23526,UniRef100_Q1RMG2,UniRef100_UPI000186D1CD	0.9754	0.17	Adenosylhomocysteinase
25	UniRef100_P00762	0.9678	0.31	Anionic trypsin-1
26	UniRef100_B4DEI8,UniRef100_Q14CN4,UniRef100_Q14CN4-2,UniRef100_Q3SY84,UniRef100_Q7RTS7,UniRef100_Q86Y46,UniRef100_Q86Y46-2,UniRef100_UPI00019912E7	0.9646	0.31	cDNA FLJ60438, highly similar to Homo sapiens keratin protein K6irs (K6IRS2), mRNA

Table 2: Mass spec results for 80-90 kDa bands.

Entry no.	Protein	Protein probability	Percent share of spectrum id's	Description
1a	UniRef100_A4D218,UniRef100_B3KR41,UniRef100_Q9Y6D9,UniRef100_UPI0001AE7041	1	3.58	MAD1 mitotic arrest deficient-like 1 (Yeast)
2a	UniRef100_B0QYK0,UniRef100_B0QYK1,UniRef100_Q01844,UniRef100_Q4R3Q5,UniRef100_Q96FE8,UniRef100_Q96MN4,UniRef100_Q96MX4	1	2.61	Ewing sarcoma breakpoint region 1
3a	UniRef100_B4DZW4	1	3.19	cDNA FLJ57246, highly similar to Poly(A)-binding protein 1
3b	UniRef100_Q3ZCS4,UniRef100_Q9H361	0.9674	1.17	Poly(A) binding protein, cytoplasmic 3
4a	UniRef100_C5I WV5,UniRef100_P00761	1	19.69	Trypsinogen
5a	UniRef100_P02769	1	26.3	Serum albumin
6a	UniRef100_P04264	1	4.8	Keratin, type II cytoskeletal 1
7a	UniRef100_P07900	1	14.08	Heat shock protein HSP 90-alpha
8	UniRef100_P13645,UniRef100_UPI00017BCE7F	0.9914	0.81	Keratin, type I cytoskeletal 10
9	UniRef100_UPI0000159167	0.9914	1.21	Immunoglobulin heavy chain V gene segment
10	UniRef100_UPI000186D037	0.9914	0.4	tubulin beta-2 chain, putative
11	UniRef100_Q59EK6,UniRef100_Q5CAQ4	0.9897	0.4	TNF receptor-associated protein 1 variant (Fragment)
12	UniRef100_A8K9C4,UniRef100_B4DNE0,UniRef100_P68104,UniRef100_Q05639,UniRef100_Q53G85,UniRef100_Q53GA1,UniRef100_Q53GE9,UniRef100_Q53HM9,UniRef100_Q53HQ7,UniRef100_Q53HR5,UniRef100_Q5JR01,UniRef100_Q5VTE0,UniRef100_Q6IPN6,UniRef100_Q6IPT9,UniRef100_Q6IQ15,UniRef100_Q6NS35,UniRef100_Q6NSH7,UniRef100_Q9H2I7,UniRef100_UPI00015E0621,UniRef100_UPI00015E0622,UniRef100_UPI0001A5EEDA	0.9656	0.4	Elongation factor 1-alpha
13	UniRef100_P01871,UniRef100_P04220,UniRef100_Q86TT1,UniRef100_UPI000173A6A1	0.9656	0.4	Ig mu chain C region