

# 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

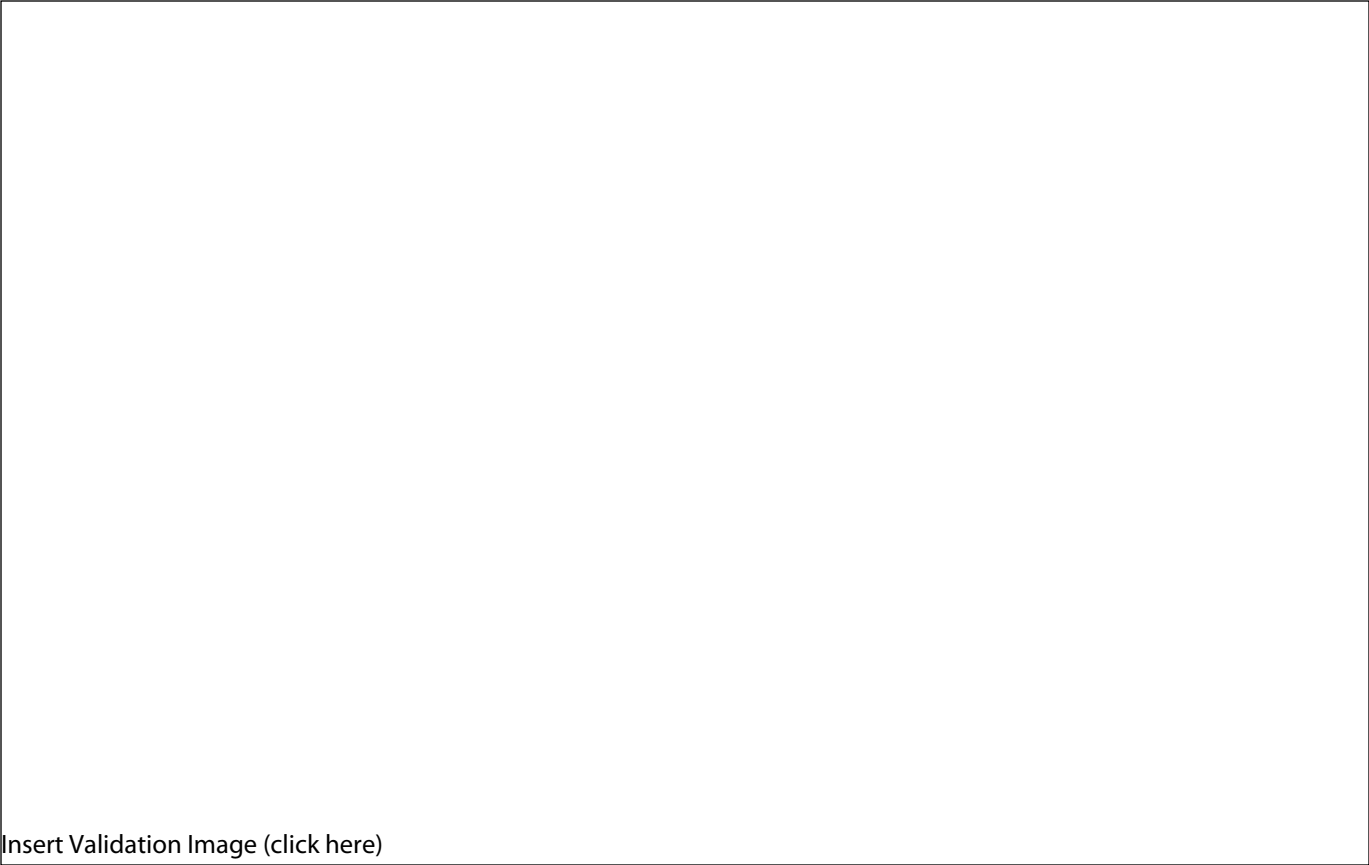
AA Position

Modification

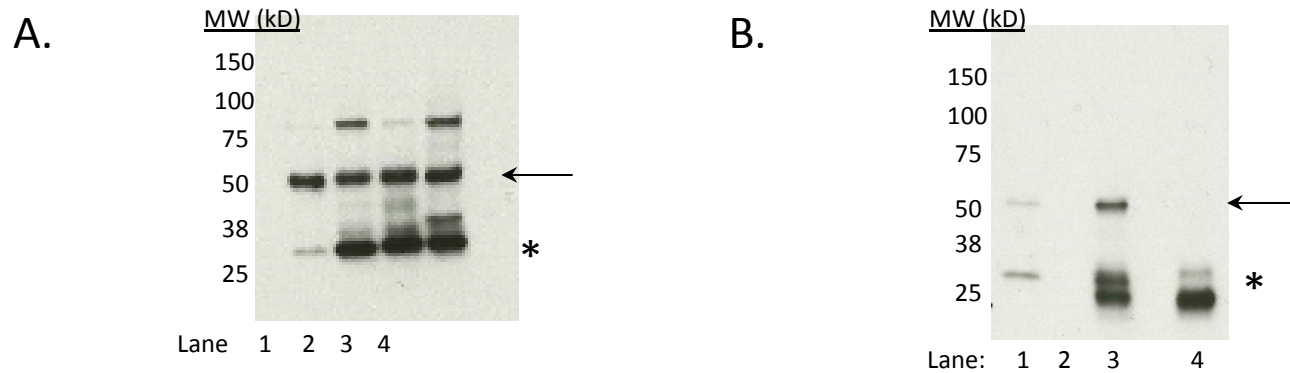
Validation #1  
Analysis



Insert Validation Image (click here)



# ab85725 (Maz) Immunoblot/immunoprecipitation



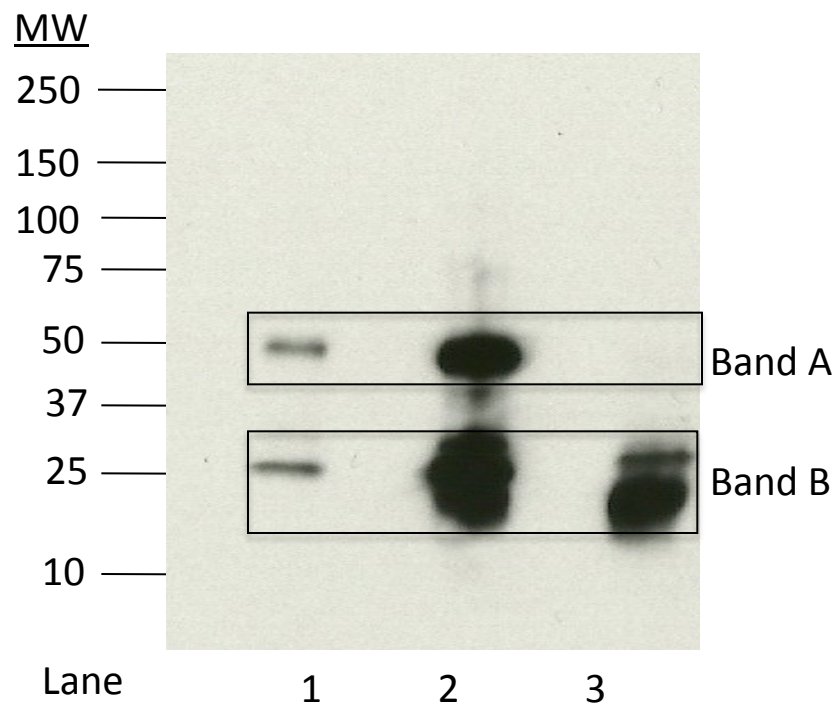
**A.** Western blot using ab85725. Lanes contain nuclear lysates from GM12878 cells (Lane 1), K562 cells (Lane 2), HeLa S3 cells (Lane 3), and HepG2 cells (Lane 4).  
**B.** Immunoprecipitation of Maz from HeLa S3 cells using ab85725. Lane 1: input nuclear lysate, Lane 2: unbound material from immunoprecipitation with ab85725, Lane 3: material immunoprecipitated with ab85725, Lane 4: material immunoprecipitated using control IgG. Arrows indicate band at expected size of Maz, \* indicates band of similar intensity and unexpected size (identified as Maz by mass spectrometry).

Validation #2  
Analysis



Insert Validation Image (Click here)

# ab85725 (Maz) Immunoprecipitation/Mass spectrometry



Spectra	Name of Protein	Count of Peptides	PeptideRatio (MAZ/IgG control)
MAZ_Band A	X-ray repair cross-complementing protein 6	30	1.428571429
MAZ_Band A	Nucleolar protein 56	27	2.25
MAZ_Band A	Isoform A of Lamin-A/C	26	2
MAZ_Band A	Stress-70 protein, mitochondrial	25	3.125
MAZ_Band A	Nucleolar protein 58	24	1.263157895
MAZ_Band A	Isoform 1 of Heterogeneous nuclear ribonucleoprotein R	18	1.2
MAZ_Band A	Isoform 4 of Heterogeneous nuclear ribonucleoprotein Q	16	3.2
MAZ_Band A	Isoform 2 of Heterogeneous nuclear ribonucleoprotein Q	15	2.5
MAZ_Band A	Heterogeneous nuclear ribonucleoprotein L	14	1.076923077
MAZ_Band A	ATP-dependent RNA helicase A	13	1.083333333
MAZ_Band A	Insulin-like growth factor 2 mRNA-binding protein 1	12	0.923076923
MAZ_Band A	Isoform 2 of Heterogeneous nuclear ribonucleoprotein M	12	3
MAZ_Band A	Lamin-B1	12	1.333333333
MAZ_Band A	RSL1D1 protein	12	6
MAZ_Band A	h/ACA ribonucleoprotein complex subunit 4 isoform 2	11	NOT IN CONTROL IP
MAZ_Band A	U3 small nucleolar RNA-associated protein 6 homolog	11	1.222222222
MAZ_Band A	ATP synthase subunit alpha, mitochondrial	11	5.5
MAZ_Band A	cDNA FLJ58049, highly similar to RNA-binding protein FUS	10	1.428571429
MAZ_Band A	Isoform 1 of Cirhin	10	1.428571429
MAZ_Band A	Isoform 1 of Insulin-like growth factor 2 mRNA-binding protein 3	10	1
MAZ_Band A	Isoform 2 of Nucleolar RNA helicase 2	10	5
MAZ_Band A	Isoform 3 of Probable ATP-dependent RNA helicase DDX17	10	3.333333333
MAZ_Band A	Probable ATP-dependent RNA helicase DDX5	9	1
MAZ_Band A	ATP synthase subunit beta, mitochondrial	9	2.25
MAZ_Band A	Heterogeneous nuclear ribonucleoprotein H	9	NOT IN CONTROL IP
MAZ_Band A	Heterogeneous nuclear ribonucleoprotein K	8	NOT IN CONTROL IP
MAZ_Band A	Putative uncharacterized protein PES1	8	2.666666667
MAZ_Band A	U3 small nucleolar RNA-interacting protein 2	8	NOT IN CONTROL IP
MAZ_Band A	cDNA FLJ45706 fis, clone FEBRA2028457, highly similar to Nucleolin	7	1.357142857
MAZ_Band A	DNA topoisomerase 1	7	NOT IN CONTROL IP
MAZ_Band A	myc-associated zinc finger protein isoform 2	7	NOT IN CONTROL IP
MAZ_Band A	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	6	2

MAZ_Band A	Isoform 2 of Guanine nucleotide-binding protein-like 3	6	1.2
MAZ_Band A	Isoform 2 of Putative oxidoreductase GLYR1	6	1.2
MAZ_Band A	Isoform Long of Heterogeneous nuclear ribonucleoprotein U	6	1.2
MAZ_Band A	probable ATP-dependent RNA helicase DDX52 isoform b	6	3
MAZ_Band A	Putative uncharacterized protein DDX56	6	3
MAZ_Band A	ATPase family AAA domain-containing protein 3A isoform 3	5	0.625
MAZ_Band A	cDNA FLJ53912, highly similar to Zinc finger protein 512	5	NOT IN CONTROL IP
MAZ_Band A	Isoform 1 of Polypyrimidine tract-binding protein 1	5	3
MAZ_Band A	U3 small nucleolar RNA-associated protein 18 homolog	5	0.833333333
MAZ_Band A	Nucleolar complex protein 4 homolog	5	NOT IN CONTROL IP
MAZ_Band A	Ribosomal RNA processing protein 1 homolog A	5	NOT IN CONTROL IP
MAZ_Band A	60 kDa heat shock protein, mitochondrial	4	0.571428571
MAZ_Band A	Isoform 1 of RNA-binding protein 14	4	NOT IN CONTROL IP
MAZ_Band A	Lamin-B2	4	0.666666667
MAZ_Band A	Pre-mRNA-processing factor 19	4	NOT IN CONTROL IP
MAZ_Band A	Pumilio domain-containing protein KIAA0020	4	2
MAZ_Band A	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	4	1.333333333
MAZ_Band A	Splicing factor 3A subunit 3	4	1.333333333
MAZ_Band A	WD repeat-containing protein 46	4	NOT IN CONTROL IP
MAZ_Band A	Eukaryotic initiation factor 4A-III	4	NOT IN CONTROL IP
MAZ_Band A	Heterogeneous nuclear ribonucleoprotein F	4	NOT IN CONTROL IP
MAZ_Band A	TUBB6 protein	4	0.210526316
MAZ_Band A	ATP-dependent RNA helicase DDX18	3	1.5
MAZ_Band A	ATP-dependent RNA helicase DDX3X	3	1.5
MAZ_Band A	cDNA FLJ50996, highly similar to 60S ribosomal protein L4	3	NOT IN CONTROL IP
MAZ_Band A	DNA topoisomerase 2	3	1.5
MAZ_Band A	Isoform Short of TATA-binding protein-associated factor 2N	3	1.5
MAZ_Band A	Nuclease-sensitive element-binding protein 1	3	NOT IN CONTROL IP
MAZ_Band A	Putative uncharacterized protein RPN2	3	1.5
MAZ_Band A	SNW domain-containing protein 1	3	1
MAZ_Band A	U3 small nucleolar RNA-associated protein 15 homolog	3	NOT IN CONTROL IP
MAZ_Band A	ATP-dependent RNA helicase DDX39	3	3
MAZ_Band A	Heterogeneous nuclear ribonucleoprotein G	3	NOT IN CONTROL IP

MAZ_Band A	Isoform 2 of Polyadenylate-binding protein 2	3	NOT IN CONTROL IP
MAZ_Band A	C4A protein	2	0.25
MAZ_Band A	cDNA, FLJ79275, highly similar to T-complex protein 1 subunit epsilon	2	0.5
MAZ_Band A	Isoform 1 of Heat shock protein HSP 90-alpha	2	0.666666667
MAZ_Band A	Isoform 4 of Heterogeneous nuclear ribonucleoprotein U-like protein 1	2	NOT IN CONTROL IP
MAZ_Band A	Isoform 5 of Interleukin enhancer-binding factor 3	2	2
MAZ_Band A	Matrin-3	2	2
MAZ_Band A	Serpin B12	2	NOT IN CONTROL IP
MAZ_Band A	SWI/SNF-related matrix-associated actin-dependent regulator of chroma	2	NOT IN CONTROL IP
MAZ_Band A	T-complex protein 1 subunit gamma isoform c	2	1
MAZ_Band A	cDNA FLJ50996, highly similar to 60S ribosomal protein L4	2	NOT IN CONTROL IP
MAZ_Band A	DDB1- and CUL4-associated factor 13	2	NOT IN CONTROL IP
MAZ_Band A	histone-binding protein RBBP4 isoform c	2	NOT IN CONTROL IP
MAZ_Band A	probable ATP-dependent RNA helicase DDX47 isoform 2	2	NOT IN CONTROL IP
MAZ_Band A	Putative uncharacterized protein HNRNPD	2	NOT IN CONTROL IP
MAZ_Band B	Isoform A1-A of Heterogeneous nuclear ribonucleoprotein A1	14	NOT IN CONTROL IP
MAZ_Band B	myc-associated zinc finger protein isoform 2	13	NOT IN CONTROL IP
MAZ_Band B	Anti-RhD monoclonal T125 kappa light chain	11	NOT IN CONTROL IP
MAZ_Band B	electron transfer flavoprotein subunit alpha, mitochondrial isoform b	10	NOT IN CONTROL IP
MAZ_Band B	Chromobox protein homolog 3	10	1.428571429
MAZ_Band B	ELAV-like protein 1	9	0.75
MAZ_Band B	Isoform 2 of Nucleophosmin	9	2
MAZ_Band B	Cyclosporin A transporter 1 (Fragment)	8	NOT IN CONTROL IP
MAZ_Band B	Isoform A2 of Heterogeneous nuclear ribonucleoproteins A2/B1	8	2
MAZ_Band B	60S ribosomal protein L7a	7	NOT IN CONTROL IP
MAZ_Band B	Borealin	7	0.875
MAZ_Band B	Prohibitin-2	7	1
MAZ_Band B	ADP/ATP translocase 2	6	5
MAZ_Band B	Isoform 1 of Uncharacterized protein FLJ36031	6	NOT IN CONTROL IP
MAZ_Band B	Putative uncharacterized protein HNRNPAB	6	2.5
MAZ_Band B	THO complex subunit 4	6	NOT IN CONTROL IP
MAZ_Band B	Tricarboxylate transport protein, mitochondrial	6	NOT IN CONTROL IP
MAZ_Band B	U2 small nuclear ribonucleoprotein A'	6	NOT IN CONTROL IP



MAZ_Band B	H/ACA ribonucleoprotein complex subunit 2	6	2
MAZ_Band B	Hornerin	5	2.5
MAZ_Band B	Flavin reductase	5	NOT IN CONTROL IP
MAZ_Band B	40S ribosomal protein S3	4	NOT IN CONTROL IP
MAZ_Band B	40S ribosomal protein S4, X isoform	4	NOT IN CONTROL IP
MAZ_Band B	60S ribosomal protein L13	4	NOT IN CONTROL IP
MAZ_Band B	Chloride intracellular channel protein 1	4	NOT IN CONTROL IP
MAZ_Band B	Chromosome 1 open reading frame 77	4	NOT IN CONTROL IP
MAZ_Band B	Heterogeneous nuclear ribonucleoprotein G	4	1.333333333
MAZ_Band B	Isoform 1 of Heterogeneous nuclear ribonucleoprotein R	4	NOT IN CONTROL IP
MAZ_Band B	Isoform 2 of Heterogeneous nuclear ribonucleoprotein H3	4	1
MAZ_Band B	Isoform 3 of Heterogeneous nuclear ribonucleoprotein D-like	4	NOT IN CONTROL IP
MAZ_Band B	Putative uncharacterized protein HNRNPD	4	NOT IN CONTROL IP
MAZ_Band B	Putative uncharacterized protein RPS3A	4	NOT IN CONTROL IP
MAZ_Band B	Ribosomal protein L18	4	NOT IN CONTROL IP
MAZ_Band B	Serpin B12	4	4
MAZ_Band B	40S ribosomal protein S13	4	1.333333333
MAZ_Band B	40S ribosomal protein S18	4	2
MAZ_Band B	Isoform HMG-I of High mobility group protein HMG-I/HMG-Y	4	0.571428571
MAZ_Band B	Transcription factor MafG	4	NOT IN CONTROL IP
MAZ_Band B	40S ribosomal protein S6	3	NOT IN CONTROL IP
MAZ_Band B	Fatty acid-binding protein, epidermal	3	NOT IN CONTROL IP
MAZ_Band B	Histone H1x	3	1.5
MAZ_Band B	Interleukin enhancer-binding factor 2	3	NOT IN CONTROL IP
MAZ_Band B	Isoform 1 of Heat shock protein HSP 90-alpha	3	2
MAZ_Band B	Isoform 1 of Probable DNA dC->dU-editing enzyme APOBEC-3B	3	3
MAZ_Band B	Isoform Liver of ATP synthase subunit gamma, mitochondrial	3	0.75
MAZ_Band B	Putative uncharacterized protein RPL7	3	NOT IN CONTROL IP
MAZ_Band B	Ribosomal protein S8	3	NOT IN CONTROL IP
MAZ_Band B	ADP-ribosylation factor 1	3	3
MAZ_Band B	U3 small nucleolar ribonucleoprotein protein IMP3	3	NOT IN CONTROL IP
MAZ_Band B	2,4-dienoyl-CoA reductase, mitochondrial	2	0.666666667
MAZ_Band B	DNA topoisomerase 2	2	NOT IN CONTROL IP

MAZ_Band B	Emerin	2	0.22222222
MAZ_Band B	Galectin-7	2	1
MAZ_Band B	Isoform 1 of Core histone macro-H2A.1	2	1
MAZ_Band B	Isoform 2 of Heterogeneous nuclear ribonucleoprotein Q	2	NOT IN CONTROL IP
MAZ_Band B	Isoform 3 of Core histone macro-H2A.1	2	1
MAZ_Band B	Isoform 4 of Heterogeneous nuclear ribonucleoprotein Q	2	NOT IN CONTROL IP
MAZ_Band B	myosin-7B	2	NOT IN CONTROL IP
MAZ_Band B	GTP-binding nuclear protein Ran	2	NOT IN CONTROL IP
MAZ_Band B	40S ribosomal protein S11	2	0.66666667
MAZ_Band B	cDNA FLJ58049, highly similar to RNA-binding protein FUS	2	2
MAZ_Band B	Putative uncharacterized protein ARF5	2	2