

Analysis of Histone H3R8me2s Antibody on the EpiTitan™ Histone Peptide Array

a-HG	70	21	79	8	74	25	75	61	13	78	22	66	17	82	a-HG
14	62	29	102	10	58	34	121	71	5	86	38	67	1	95	42
47	301	39	90	52	312	35	83	300	48	103	30	304	43	99	26
132	403	163	383	138	626	167	65	308	146	382	184	352	160	366	151
147	309	180	254	139	305	184	363	260	133	198	220	400	89	374	226
55	224	221	371	360	129	185	195	364	56	255	181	370	237	375	174
88	202	320	379	140	210	357	361	166	216	378	321	161	238	409	246
217	158	853	337	211	141	614	341	203	126	0	316	169	4	333	a-HG
0	0	317	330	0	0	342	615	0	0	338	854	0	a-His	334	410
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	a-HG	0	0
3	69	20	80	7	73	24	76	60	12	77	23	243	16	81	19
15	63	28	101	11	59	33	311	72	6	86	37	68	2	93	41
45	302	40	91	51	123	36	84	124	50	104	32	303	44	100	27
125	402	162	789	137	625	166	350	307	145	381	165	351	149	790	157
148	310	179	253	144	306	183	120	264	134	197	187	401	96	373	225
54	269	229	372	359	362	186	196	200	57	241	182	242	53	376	178
87	171	265	380	136	209	323	363	165	216	366	322	160	219	408	268
218	169	412	336	213	142	587	340	208	135	662	315	170	18	332	319
0	0	318	331	0	0	343	661	0	0	339	586	0	0	335	411
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	68	19	81	6	72	23	77	59	11	76	24	63	15	80	20
16	243	27	100	12	60	32	104	73	7	84	36	69	3	91	40
44	303	41	93	50	124	37	85	123	51	311	33	302	45	101	28
96	401	157	790	134	264	165	381	306	144	360	166	310	148	789	162
149	351	178	376	145	307	182	241	625	137	196	186	402	126	372	229
53	242	225	373	57	200	187	197	362	359	120	183	259	54	253	179
18	170	258	408	135	208	322	365	142	213	363	323	159	218	380	266
219	160	411	335	215	156	586	339	209	136	661	348	171	87	331	318
0	0	319	332	0	0	315	662	0	0	340	587	0	0	336	412
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	67	a-HG	82	5	71	22	78	58	10	75	25	62	14	79	21
17	66	26	99	13	61	30	103	74	8	83	35	70	a-HG	90	39
43	304	42	95	48	300	38	86	312	52	121	34	301	47	102	29
89	400	151	366	133	280	164	382	305	139	66	167	309	147	383	163
150	352	174	375	146	308	181	255	626	138	195	185	403	132	371	221
237	370	226	374	56	364	220	198	129	360	363	184	224	56	264	180
4	169	246	409	126	203	321	378	141	211	361	357	158	217	379	320
238	161	410	334	216	156	854	338	210	140	615	342	202	88	330	317
a-His	0	a-HG	333	0	0	316	0	0	0	341	614	0	0	337	863
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
a-HG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Antibody Specificity:

EpiTitan™ Histone Peptide Array was used to analyze binding specificity of the Histone H3 R8Me2s Antibody (Arg8 symmetric dimethyl) antibody at 1:5,000. Antibody signal appears in red, while the spotting tracer appears in green. The array image is overlaid with a frame containing numbers corresponding to the peptide number ("Peptide #") in the raw data list below. Raw data "Signal" is an average of the antibody signal intensities of all 6 instances of the corresponding peptide on the array (2 instances of three peptide spots in a row).

Peptide #	Signal	STDEV	Peptide Name
142	66654	25177	H3R8me2s
183	66009	11545	H3R8me2s + K9me3
184	59167	4254	H3R8me2s + K9me2
185	50324	2091	H3R8me2s + K9me1
89	48129	9765	H3K4me3 + R8me2s + K9me3
150	35690	4424	H3R17me2s
90	20422	28299	H3 (15-41)
141	12906	11122	H3R8me2a
140	6546	703	H3R8me1
182	5112	1164	H3R8me2a + K9me1
178	2656	2219	H3R8me1 + K9me3
159	2577	1898	H3R17me2a (1-25)
180	2250	1927	H3R8me2a + K9me3
179	2092	468	H3R8me1 + K9me2
11	2068	1255	H3K14ac + K18ac
160	1950	829	H3R17me2a + K18ac (1-25)
181	1917	949	H3R8me2a + K9me2
213	1864	2201	H3 120-135
61	1772	131	H3R2me2s + K4me2
32	1717	1435	H3K4me2
74	1687	634	H4R3me2s
158	1628	1076	H3K18ac (1-25)
2	1437	510	H3K14ac
19	1377	1454	H3K4me3 + K9ac
13	1329	595	H3K4ac + K18ac
238	1314	1538	H3K9me2 + K27me1 (1-32)
40	1305	284	H3R2me2a + K4me3 + S10p
24	1287	482	H3K4me3 + K14ac + K18ac
151	1261	115	H3R17me1
365	1259	1628	H4K12ac + K20ac
63	1188	1162	H3Cit2 + K4me2
10	1184	645	H3K18ac
353	1132	870	H4S1p + K5ac + K8ac + K12ac + K16ac
125	1126	1056	H3T3p
5	1104	386	H3K4ac + K14ac
149	1085	223	H3R17me2a
1	1079	405	H3 (1-20)
38	1073	663	H3K4me3 + S10p
60	1022	668	H3R2me2a + K4me2