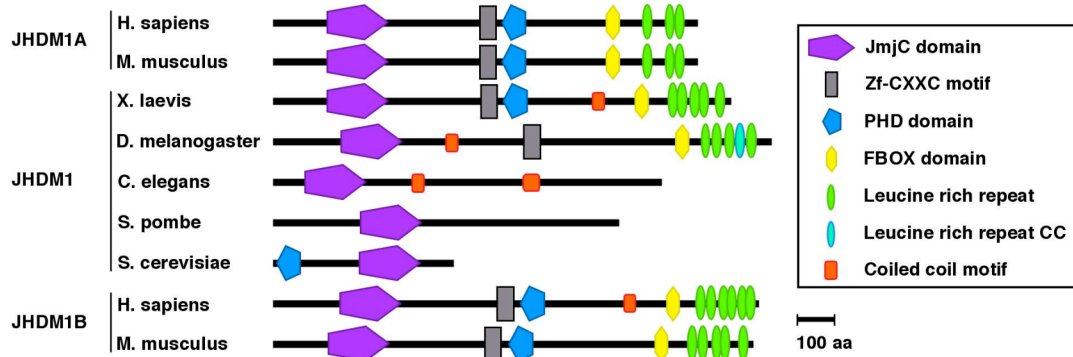
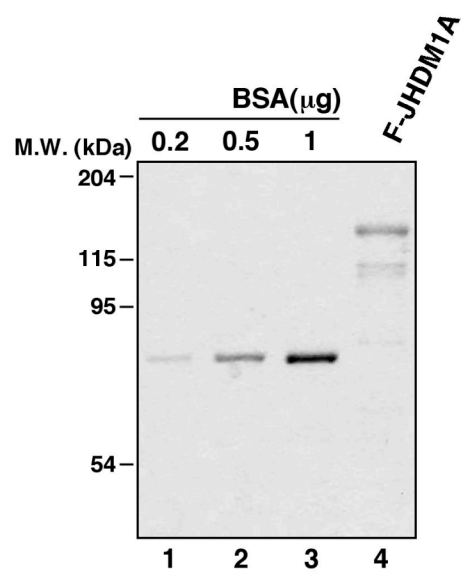


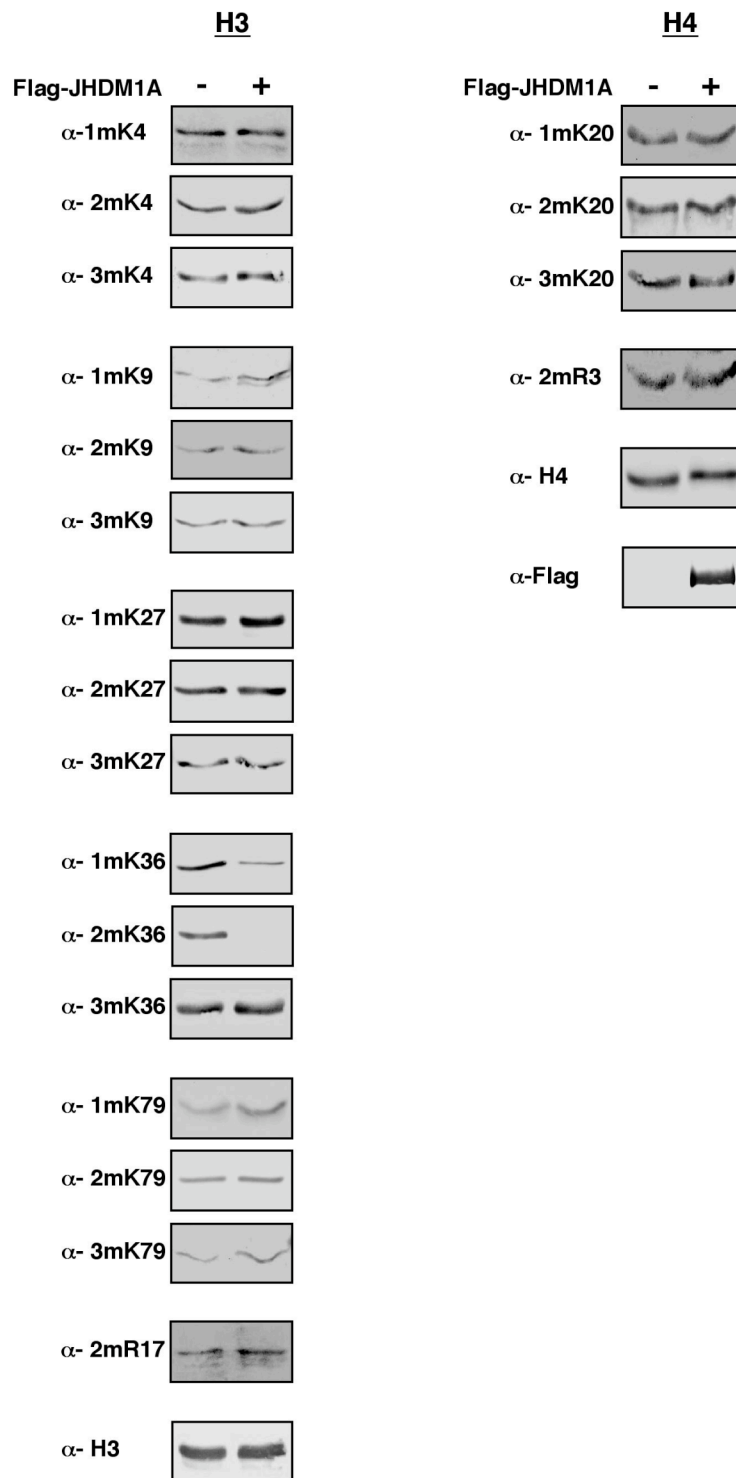
a



b

	FIH1	144	LYLQQTNDTVGKIV---MDFLGFNNWINKQO-----GKRGWGQL-----TSNLLIGMEGNVTPAHYD--	201
JHDM1A	H. sapiens	148	FSHTRLENMVFQNPSTVDFIDWVDNMPRHLKES-----QTESINAILEMOYPKVKYKCYCLMSVRCGYTDFHVDG	216
	M. musculus	148	FSHTRLENMVFQNPSTVDFIDWVDNMPRHLKES-----QTESINAILEMOYPKVKYKCYCLMSVRCGYTDFHVDG	216
JHDM1	X. laevis	147	FSHTRLERVVKRPTVVDVAVDWDNMPRHLKEQ-----QKESINVIAMKYPKVKYKCYCLMSVRCGYTDFHVDG	215
	D. melanogaster	180	FSHTRLDRFVQSPETVRQIDWVDVWPKQLKDA-----QREGTNLLGGMYPKVKYKCYCLMSVRCGYTDFHVDG	248
JHDM1B	C. elegans	93	FSQPLLEDLVKSPQLVRQIDWVDNMPDALARQRWISFNDRDKKFINPHHTFPKVVNFCCLMSVANCYTDFHIDFS	166
	S. pombe	243	VSTIKLQAYYVRKPNIVRDLDVNTVWMP-----PGSFALGE--YFIVDTYCLMSAENSYTEFHIDFG	301
	S. cerevisiae	245	IEGLELE---RPTAVRQNDLVKIKWSFNHGLE-----KVNGEKAENEKPKVKYKCYCLMSVRCGYTDFHVDG	309
JHDM1B	H. sapiens	178	FSHTRLEHLVVRPTVVDLVDWVDNMPQHLKES-----QTEATNAIAEMKYPKVKYKCYCLMSVRCGYTDFHVDG	246
	M. musculus	147	FSHTRLEHLVVRPTVVDLVDWVDNMPQHLKES-----QTEATNAIAEMKYPKVKYKCYCLMSVRCGYTDFHVDG	215
JHDM1A	FIH1	202	EQQNFFAQIKGKRCILFPDQFECIYFYPVHHPCDRQSO-VDFDNPDIYERFPNFQNVVGYETVVGFGDVLVYIFM	275
	H. sapiens	217	GTSVWVHIHQGKVFVLIPTTAHN-LELYENWLLSGKQGD-IFLGD---RVSDCORI---ELKQGYTFVIFPS	280
	M. musculus	217	GTSVWVHIHQGKVFVLIPTTAHN-LELYENWLLSGKQGD-IFLGD---RVSDCORI---ELKQGYTFVIFPS	280
	X. laevis	216	GTSVWVHIFRGGKVFVLIPTTGHN-LQLYEENWLLSGKQGD-IFLGD---RSECCORI---ELKQGYTFVIFPS	279
	D. melanogaster	249	GTSVWVHILRGGKVFVLIPTTDRN-LQLYEENWLLSGKQGD-IFFGD---TVEKCAV---YLTAGNAFFIPT	312
JHDM1	C. elegans	167	GTSVWVHILRGGKVFVLIPTTETN-FFIYQEFIKTVNDN---AFFCK---SVEKCHVA---ILEPGDAMLIFPS	229
	S. pombe	302	GTSVWVHILRGGKVFVLIPTTQSN-WEANTAWLTSNDSKPKLFPN---MVDVCYCV---EVHSQDAILVPS	366
	S. cerevisiae	310	GTSVWVHIFRGGKVFVLIPTTQSN-IDKVIENSLKEDQNS-VFLGD---ILBGIAM---BLDAGDLMFIPA	373
JHDM1B	H. sapiens	247	GTSVWVHIFRGGKVFVLIPTTLHN-LALYEEWLLSGKQSD-IFLGD---RVERCORI---ELKQGYTFVIFPS	310
	M. musculus	216	GTSVWVHIFRGGKVFVLIPTTLHN-LALYEEWLLSGKQSD-IFLGD---RVERCORI---ELKQGYTFVIFPS	279
JHDM1A	FIH1	276	YWAHHI---ESILNGGITITVNFYKGAFTPKRIEYPLK-	311
	H. sapiens	281	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLKIYSEID	316
	M. musculus	281	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLKIYSEID	316
	X. laevis	280	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	315
JHDM1	D. melanogaster	313	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	348
	C. elegans	230	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	265
JHDM1B	S. pombe	367	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	402
	S. cerevisiae	374	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	409
JHDM1B	H. sapiens	311	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	346
	M. musculus	280	GWIHAVYTFDLSLVFGG---NFLHSENPMPOLRVFEID	315

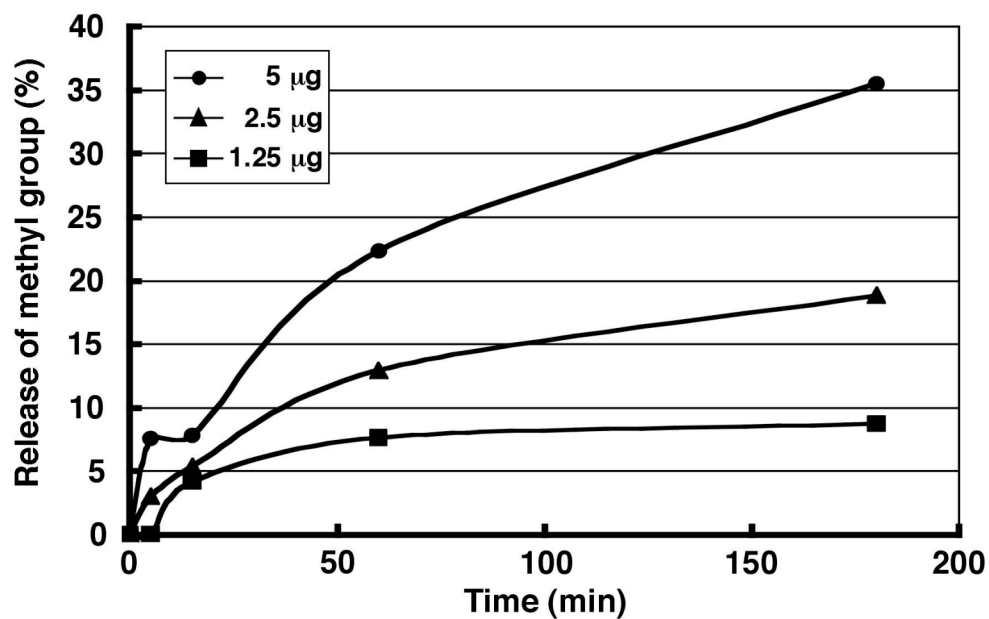


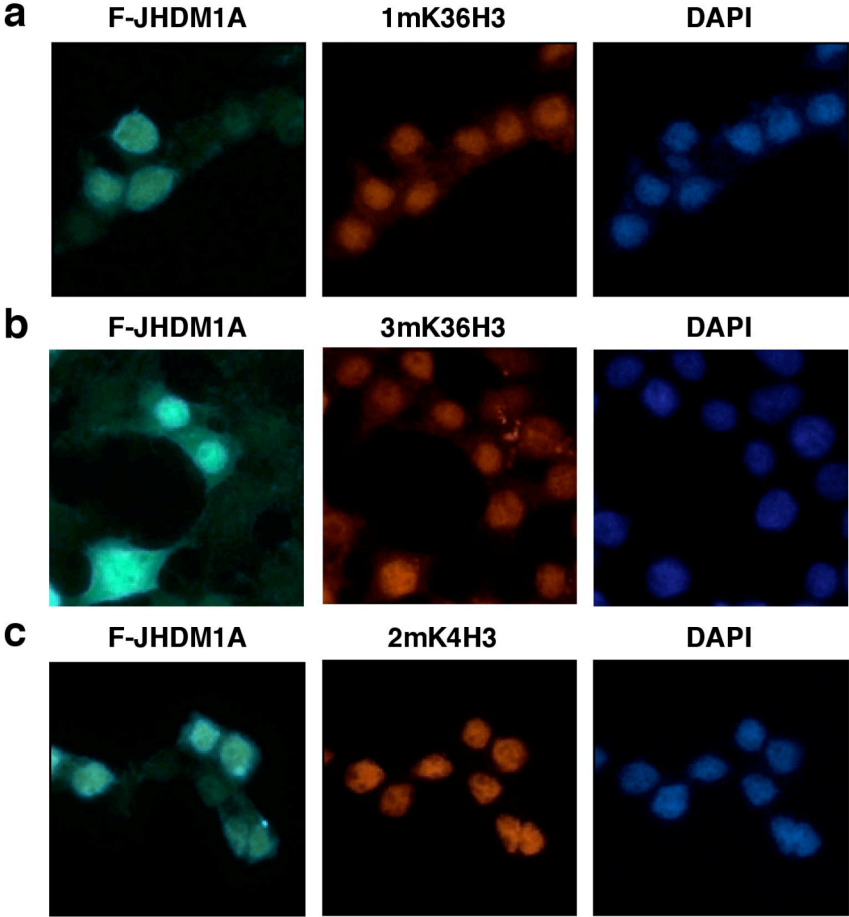


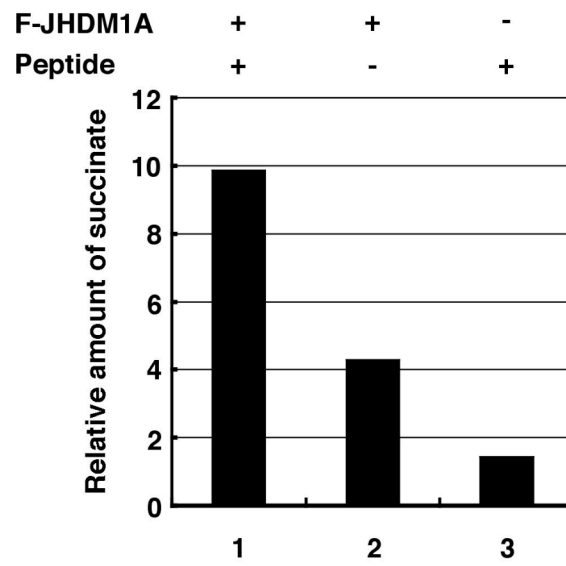
a

		peptide (%)		
F-JHDM1	Time (min)	Dimethyl	Monomethyl	no methyl
1.25 (μg) enzyme:substrate (1:80)	0	100	0	0
	5	100	0	0
	15	91.6	8.4	0
	60	84.7	15.3	0
	180	82.5	17.5	0
2.5 (μg) enzyme:substrate (1:40)	0	100	0	0
	5	94	6	0
	15	89.2	10.8	0
	60	78.1	17.9	4
	180	62.3	29.7	8
5 (μg) enzyme:substrate (1:20)	0	100	0	0
	5	84.8	15.2	0
	15	84.1	15.9	0
	60	62.8	29.7	7.5
	180	46.1	36.7	17.2

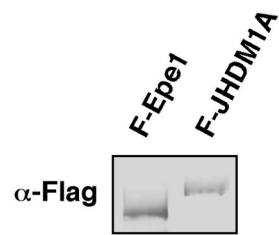
b







a



b

