

Recombinant Human EHMT2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EHMT2-1468H Lot. No. (See product label)

SPECIFICATION

Product Overview	EHMT2 MS Standard C13 and N15-labeled recombinant protein (NP_079532) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a methyltransferase that methylates lysine residues of histone H3. Methylation of H3 at lysine 9 by this protein results in recruitment of additional epigenetic regulators and repression of transcription. This gene was initially thought to be two different genes, NG36 and G9a, adjacent to each other in the HLA locus. Alternative splicing results in multiple transcript variants.
Molecular Mass	128.8 kDa
AA Sequence	<p>MAAAAGAAAAAAEAGEAPAEMGALLLEKETRGATERVHGSLGDTPRSEETLPKANP DSLEPAGPSSPASVTVTVGDEGADTPVGATPLIGDESENLEGDGLRGGRILLGHAT KSFPPSSPSKGGSCPSRAKMSMTGAGKSPPSVQSLAMRLLSMPGAQGAAAAGSEP PPATTSPGQPKVHRARKTMSKPGNGQPPVPEKRPPEIQHFRMSDDVHSLGKVTS DLAKRRKLNSGGGLSEELGSARRSGEVTLTKGDPGSLEEWETVVGDDFSLYYDSY SVDERVSDSKSEVEALTEQLSEEEEEEEEEEEEEEEEEEEEEEEEEDEESGNQSDR SGSSGRRKAKKKWRKDSPWVKPSRKRKRREPPRAKEPRGVSNDTSSLETERGFE ELPLCSCRMEAPKIDRISERAGHKCMATESVDGELSGCNAAILKRETMRPSSRVALM</p>

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

VLCETHRARMVKHHCCPGCGYFCTAGTFLECHPDFRVAHRFHKACVSQLNGMVFC
 PHCGEDASEAQEVTIPRGDGVTPPAGTAAPAPPPLSQDVPGRADTSQPSARMRGH
 GEPRRPPCDPLADTIDSSGPSLTLPNGGCLSAVGLPLGPGREALEKALVIQESERRK
 KLRFHPRQLYLSVKQGELQKVILMLLDNLDPNFQSDQQSKRTPHAAAQKGSVEICH
 VLLQAGANINAVDKQQRTPLEAVVNNHLEVARYMVQRGGCVYSKEEDGSTCLHH
 AAKIGNLEMVSLLLSTGQVDVNAQDSGGWTPIIWAAEHKHIEVIRMLLTRGADVTLTD
 NEENICLHWASFTGSAIAEVLLNARCDLHAVNYHGDTPLHIAARESYPHDCVLLFLSR
 GANPELRNKEGDTAWDLTPERSDVWFALQLNRKRLRGVGNRAIRTEKIICRDVARG
 YENVPIPCVNGVDGEPEDYKYISENCETSTMNIDRNITHLQHCTCVDDCSSNCL
 CGQLSIRCWYDKDGRLLQEFNKIEPLIFECNQACSCWRNCKNRVVQSGIKVRLQL
 YRTAKMGWGVRALQTIPQGTFCICEYVGELISDAEADVREDDSYLFDLDNKDGEVYCI
 DARYYGNISRFINHLCDPNIIPVRVFMHQLRFPRIAFFSSRDIRTGEELGFDYGRDF
 WDIKSKYFTCQCGSEKCKHSAEIALEQSRLARLDPHPELLPELGLSPPVNTTRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name EHMT2 euchromatic histone-lysine N-methyltransferase 2 [Homo sapiens (human)]

Official Symbol EHMT2

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Synonyms	EHMT2; euchromatic histone-lysine N-methyltransferase 2; BAT8, C6orf30, chromosome 6 open reading frame 30, HLA B associated transcript 8; histone-lysine N-methyltransferase EHMT2; Em:AF134726.3; G9A; KMT1C; NG36/G9a; protein G9a; H3-K9-HMTase 3; G9A histone methyltransferase; HLA-B associated transcript 8; HLA-B-associated transcript 8; lysine N-methyltransferase 1C; ankyrin repeat-containing protein; histone H3-K9 methyltransferase 3; histone-lysine N-methyltransferase, H3 lysine-9 specific 3; BAT8; GAT8; NG36; C6orf30; FLJ35547; DKFZp686H08213;
Gene ID	10919
mRNA Refseq	NM_025256
Protein Refseq	NP_079532
MIM	604599
UniProt ID	Q96KQ7

