

## Human EHMT2 Knockdown Cell Lysate

**Cat. No.** EHMT2-514HKCL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated EHMT2 Knockdown MCF7 Cell Lysate                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | MCF7                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 132 kDa                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>            | Instruction of use: This knockdown cell lysate should be paired with wild-type MCF7 cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.                                                                                                                               |
| <b>Storage</b>          | Store at -20 centigrade.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>    | Lot-specific                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-------------------------|---------------------------------------------------------------------------------|
| <b>Shipping</b>         | Blue Ice                                                                        |
| <b>Components</b>       | 1 vial of 100 µg WT MCF7 cell lysate 1 vial of 100 µg EHMT2 KD MCF7 cell lysate |
| <b>Protein Families</b> | Druggable Genome                                                                |
| <b>Protein Pathways</b> | Lysine degradation                                                              |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | EHMT2 euchromatic histone-lysine N-methyltransferase 2 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | EHMT2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 10919                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_006709                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_006700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| MIM | 604599 |
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| UniProt ID | Q96KQ7 |
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