

## Recombinant Human Lysine (K)-Specific Demethylase 5C, GST-tagged

Cat. No. KDM5C-1604H    Lot. No. (See product label)

### SPECIFICATION

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview  | Recombinant human KDM5C (1-671) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                 |
| Species           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Source            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ProteinLength     | 1-671 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description       | KDM5C or lysine (K)-specific demethylase 5C is a member of the SMCY homolog family that encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. KDM5C is mainly expressed in brain and skeletal muscle. KDM5C is involved in the regulation of transcription and chromatin remodelling that cause X-linked mental retardation. KDM5C is also essential for spermatogenesis and expression of male-specific minor histocompatibility antigens. |
| Applications      | Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Molecular Weight  | 118 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Expression System | Sf9 insect cells using baculovirus.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form              | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                    |

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 80 %                                                                                                                                                                                                                                  |
| <b>Concentration</b> | 0.1 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>     | 1-671                                                                                                                                                                                                                                   |
| <b>Storage</b>       | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KDM5C lysine (K)-specific demethylase 5C [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | KDM5C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | KDM5C; KAM5C; MRXJ; SMCX; MRXSJ; XE169; JARID1C; DXS1272E; lysine (K)-specific demethylase 5C; Jumonji, AT rich interactive domain 1C (RBP2-like); Histone demethylase JARID1C; Protein SmcX; Jumonji/ARID domain-containing protein 1C; jumonji, AT rich interactive domain 1C; Smcy homolog, X-linked (mouse); JmjC domain-containing protein SMCX; lysine-specific demethylase 5C; selected cDNA on X; Smcx homolog, X chromosome; Smcy homolog, X-linked; EC 1.14.11.; Protein Xe169 |
| <b>Gene ID</b>         | 8242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_004187                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_004178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>             | 609132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt ID          | P41229                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Chromosome Location | Xp11.22-p11.21                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Function            | DNA binding; metal ion binding; molecular_function; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular ; oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; zinc ion binding |

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