

Recombinant Human KDM4D

Catalog No: #GP11684



Package Size: #GP11684-1 100ug

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Description

Product Name	Recombinant Human KDM4D
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 146-312 amino acids of human lysine (K)-specific demethylase 4D
Target Name	lysine (K)-specific demethylase 4D
Other Names	JMJD2D
Accession No.	Swissprot:Q6B0I6Gene Accession:BC122858
Uniprot	Q6B0I6
GenelD	55693;
Storage	-20~-80°C, pH 7.6 PBS

Background

JMJD2D (Jumonji domain-containing protein 2D), also known as JHDM3D or KDM4D, is a 520 amino acid protein that belongs to the JHDM3 histone demethylase family. Localized to the nucleus, JMJD2D functions as a histone demethylase that removes specific methyl residues from Histone H3, thereby playing a crucial role in the histone code. JMJD2D binds iron as a cofactor and contains one JMJC domain and one JMJD domain, both of which are thought to exhibit enzymatic activity during chromatin remodeling events. In addition, JMJD2D forms a complex with the ligand-bound form of the androgen receptor (AR) and, through this interaction, activates AR expression. Overexpression of AR is associated with prostate cancer, suggesting that, via its ability to upregulate AR, JMJD2D may be involved in carcinogenesis.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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