

Datasheet for 010-001-S34S**KDM4B protein-GST fusion****Overview**

Description:	KDM4B recombinant protein-GST fusion protein - 010-001-S34S
Item No.:	010-001-S34S
Size:	20 µg
Origin:	Mouse
Expressed in:	Sf9 cells

Product Details

Background:	KDM4B or lysine (K)-specific demethylase 4B, which is also known as JMJD2B, contains a JmjN domain, a JmjC domain, a JD2H domain, 2 TUDOR domains, and a bipartite nuclear localization signal that overlaps the C-terminal part of the second TUDOR domain. KDM4B plays an essential role in human carcinogenesis through positive regulation of cyclin-dependent kinase 6 (1). KDM4B functions as a co-factor of estrogen receptor in breast cancer proliferation and mammary gland development (2). KDM4B is regulated by both ERα and HIF-1α, drives breast cancer cell proliferation in normoxia and hypoxia, and epigenetically regulates the expression of cell cycle genes such as CCND1, CCNA1, and WEE1. KDM4B Protein is ideal for investigators involved in Signaling Proteins, Deacetylase/Demethylase Proteins, Cancer, Cell Cycle, and Inflammation research.
Synonyms:	Jmjd2b, mKIAA0876, 4732474L06Rik, Lysine-specific demethylase 4B, EC 1.14.11.-, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B
Species of Origin:	Mouse
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	Kdm4b
Purity/Specificity:	Recombinant mouse KDM4B (1-725) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >75% by densitometry.
Relevant Links:	• NCBI - NM_172132.2

Application Details

Application Note:	KDM4B Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. KDM4B Protein is suitable for use in Western Blot. Expect a band approximately ~125kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.1 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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