Datasheet for ABIN6700239

KDM4B Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	KDM4B
Origin:	Mouse
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM4B protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	KDM4B recombinant protein-GST fusion protein
Purification:	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.
Purity:	>75%

Target Details

Target:	KDM4B
Alternative Name:	Kdm4b (KDM4B Products)
Background:	Synonyms: Jmjd2b, mKIAA0876, 4732474L06Rik, Lysine-specific demethylase 4B, EC 1.14.11.-, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B

Target 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 ERa and HIF-1a, 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.
NCBI Accession:	NM_172132
Pathways:	Warburg Effect

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: KDM4B Protein is suitable for use in Western Blot. Expect a band approximately ~125 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 µg/µL
Buffer:	KDM4B Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	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.
Expiry Date:	12 months