Mouse JMJD6/PSR Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF1994

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse JMJD6/PSR in Western blot.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse JMJD6/PSR Ala289-Arg403 Accession # Q9ERI5
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse JMJD6/PSR

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

JMJD6 (Jumonji [Japanese for "cruciform/cross"] domain-containing protein 6; also PTDSR/PSR and Lysyl-hydroxylase JMJD6) is a 47-55 kDa member of the JMJD6 family, cupin superfamily of proteins. It is induced by hypoxia, and expressed in skeletal muscle, macrophages and possibly endothelial cells. JMJD6 is reported to demethylate histones (which it does not), serve as a phosphatidyl serine receptor (which it might), and act as a lysyl hydroxylase (which it does). In the nucleus, it appears to regulate pre-RNA splicing by hydroxylating various splicing factors such as U2AF65. Mouse JMJD6 is 403 amino acids (aa) in length. It contains five NLS's plus a JmjC domain (aa 141-305) and three iron-based catalytic sites. There at least three potential isoform variants. One contains a 29 aa substitution for aa 270-403, a second possesses a 30 aa substitution for aa 302-314, and a third shows a 21 aa substitution for aa 315-403. JMJD6 is known to form high MW homo-trimers, -tetramers and -oligomers. Full-length mouse JMJD6 shares 98% and 99% aa sequence identity with human and rat JMJD6, respectively.

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