

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse JMJD6/PSR in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse JMJD6/PSR Ala289-Arg403 Accession # Q9ERI5
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### 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 are 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.

#### PRODUCT SPECIFIC NOTICES

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