

## Data Sheet

### JMJD2B (KDM4B)

Human, recombinant, C-terminal FLAG tag

**Catalog #:** 50104

Lot#: 130814-E1      Conc.: 0.10 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 90 µg/ml FLAG peptide, and 20% glycerol.

**Stability:** >6 months at -80 °C

#### References:

1. Fodor, B.D., *et al.* (2006). *Genes Dev.* **20(12)**: 1557-1562.
2. Beyer S., *et al.* (2008). *J. Biol. Chem.* **283(52)**:36542-52.

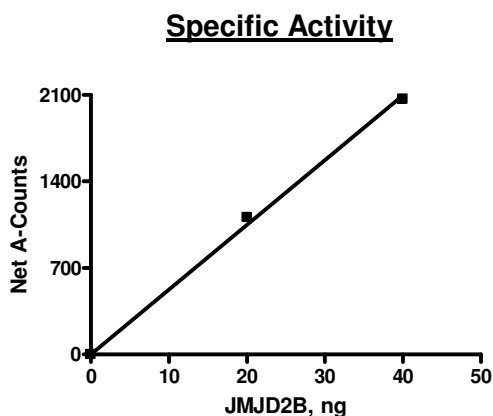
**Description:** Human JMJD2B, also known as JHDM3B and KDM4B (GenBank Accession No. NM\_015015) (amino-acids 1-500) with C-terminal FLAG tag, MW=57 kDa, expressed in Sf9 cells using a Baculovirus expression system.

**Specific Activity:** 0.088 pmol/min/µg.

Assay conditions: Assay was conducted using AlphaScreen® technology using BPS JMJD2B Homogeneous Assay Kit, Catalog #50414. JMJD2B enzyme is incubated with biotinylated histone H3 peptide substrate in JMJD assay buffer in a 10 µl reaction for 1-2 hours at RT. AlphaLISA® anti-Mouse Acceptor beads (Perkin Elmer) are added, followed by the primary antibody addition and 30 min incubation at RT. AlphaScreen® Streptavidin-conjugated donor beads (Perkin Elmer) are added. After 10-15 minute incubation at room temperature, Alphacounts are measured.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

## Quality Assurance



### 4-20% SDS-PAGE Coomassie staining

**Lane 1:**  
1.97 µg JMJD2B

**Lane 2:**  
Protein Marker

**MW:** 57 kDa  
**Purity:** ≥41%

