bs-20004R **[Primary Antibody]**

KDM6B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 23135 **SWISS:** O15054

Target: KDM6B

Immunogen: KLH conjugated synthetic peptide derived from human KDM6B: 1471-1570/1643.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: JMJD3 is a 1,679 amino acid nuclear protein that contains one JmjC domain and belongs to the highly conserved JmjC domain-containing protein family. Functioning as a histone demethylase, JMJD3 uses iron and ascorbate as cofactors to demethylate dimethylated and trimethylated Lys-27 residues of Histone H3, thereby playing an important role in the modification of the histone code. Additionally, JMJD3 regulates posterior development and is involved in the inflammatory response, specifically by mediating macrophage differentiation. JMJD3 is also thought to control the expression of neurogenesis-related proteins and, via this regulatory mechanism, may be necessary for neural commitment during early development. Two isoforms of JMJD3 exist due to alternative splicing events.

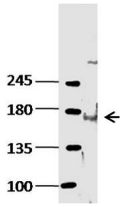
Applications: **WB** (1:500-2000)

Reactivity: Rat (predicted: Human, Mouse, Rabbit, Pig, Sheep, Cow, Horse)

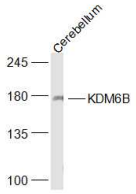
Predicted MW.: 177 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Cerebellum(Rat) Tissue Lysate at 40 ug Primary: Anti-KDM6B(bs-20004R)at 1:300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1:20000 dilution Predicted band size: 177 kD Observed band size: 177 kD



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SELECTED CITATIONS

- **[IF=5.3]** Wenkai Yu. et al. KDM6B knockdown alleviates sleep deprivation-induced cerebrovascular lesions in APP/PS1 mice by inhibiting PARP16 expression. BIOCHEM PHARMACOL. 2025 Jan;231:116650 WB ;Mouse. 39603516
- **[IF=2.8]** Zhuang Cuicui. et al. Lycopene promoted M2 macrophage polarization via inhibition of NOTCH1-PI3K-mTOR-NF-κB-JMJD3-IRF4 pathway in response to Escherichia coli infection in J744A.1 cells. ARCH MICROBIOL. 2024 Jun;206(6):1-11 WB ;Mouse. 38713385