bs-20540R **[Primary Antibody]**

ALKBH5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 54890 **SWISS:** Q6P6C2

Target: ALKBH5

Immunogen: KLH conjugated synthetic peptide derived from human ALKBH5: 1-100/394.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Dioxygenase that demethylates RNA by oxidative demethylation: specifically demethylates N(6)-methyladenosine (m6A) RNA, the most prevalent internal modification of messenger RNA (mRNA) in higher eukaryotes. Requires molecular oxygen, alpha-ketoglutarate and iron. Demethylation of m6A mRNA affects mRNA processing and export and is required for spermatogenesis.

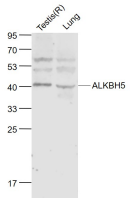
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human, Rabbit, Cow, Dog)

Predicted MW.: 44 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Testis (Rat) Lysate at 40 ug Lung (Mouse) Lysate at 40 ug Primary: Anti-ALKBH5 (bs-20540R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35-44 kD Observed band size: 40 kD

SELECTED CITATIONS

- **[IF=6.1]** Nan Zhang. et al.RNA m6A involves in regulation of oxidative stress and apoptosis may via NF-kB pathway in cadmium-induced lung cells.CELL DEATH DISCOVERY.2025 Jan 10;11(1):4. Western blot ;. 39794323
- **[IF=3.2]** Yuxin Liu. et al. N6-Methyladenosine Modification-Related Genes Express Differentially in Sterile Male Cattle-Yaks. LIFE-BASEL. 2024 Sep;14(9):1155 IHC,WB,IF ;Bovine. 39337938
- **[IF=2.9]** Nan Zhang. et al. N6-methyladenosine mediated-NRF2 signaling pathway attenuates cadmium cytotoxicity by inhibiting oxidative damage in bronchial epithelial cells. TOXICOL LETT. 2025 Jan;403:144 WB ;Human. 39725363
- **[IF=3.2]** Yuxin Liu. et al.N⁶-Methyladenosine Modification-Related Genes Express Differentially in Sterile Male Cattle-Yaks.life. IF ;Yak, Bos taurus. 39337938
- **[IF=2.7]** Qiuyan Peng. et al. Enterovirus 71 structural viral protein 1 promotes the expression of PMP22 through m6A modification in mouse Schwann cells. VIRUS RES. 2025 Jun;:199590 WB ;Mouse. 40480313