SunLong Biotech Co.,LTD
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Rabbit Anti-KDM4B antibody

SLM-60580R

Product Name	KDM4B
Chinese Name	赖氨酸特异性脱甲基酶 4BRecombinant rabbit monoclonal anti
Alias	KDM4B_HUMAN; Lysine-specific demethylase 4B; JHDM3B; JMJD2B; KIAA0876; EC:1.14 JmjC domain-containing histone demethylation protein 3B; Jumonji domain-containing protein [histone H3]-trimethyl-L-lysine(9) demethylase 4B; lysine demethylase 4B; MRD65; TDRD14
Immunogen Species	Rabbit
Clonality	Monoclonal
Clone NO.	G8C10
React Species	Human,Mouse,Rat
Applications	WB=1:500-2000,ICC/IF=1:50-200,Flow-Cyt=1:50-100,IHC-P=1:50-200,IHC-F=1:50-200,IF=1 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	122kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
Lsotype	IgG
Purification	Affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or dia applications.
PubMed	PubMed
Product Detail	Enables histone H3-methyl-lysine-36 demethylase activity and histone H3-methyl-lysine-9 demethylase a Involved in histone H3-K36 demethylation and histone H3-K9 demethylation. Located in cytosol and nucle Implicated in autosomal dominant non-syndromic intellectual disability; breast cancer; colorectal cancer; malignant peripheral nerve sheath tumor; and stomach cancer. Biomarker of several diseases, including

areata; lung cancer; medulloblastoma; prostate cancer; and stomach cancer. [provided by Alliance of Ge
Resources, Apr 2022]

Subcellular Location:
Nucleus. Chromosome. Associates with euchromatic regions. Does not associate with heterochro

Tissue Specificity:
Expressed in all tissues examined, with high levels in fetal liver, thymus, lymph node, spleen an
peripheral blood leukocytes and lower level in bone marrow.

SWISS:
O94953

Gene ID:
23030

Database links:

Entrez Gene: 23030 Human

SwissProt: O94953 Human

赖氨酸脱甲基酶 4B（KDM4B）是一种组蛋白去甲基化酶，它能催化 H3K9me3 的去甲基
松弛染色质结构和允许转录因子进入，即通过表观遗传方式调节基因表达。组蛋白赖氨酸
甲基化状态对于基因组激活和非激活区域的形成是一个主要决定因素，并且在发育期间对
组的正确编码发挥关键作用。研究发现，KDM4B 可能在 ERα 结合位点删除抑制性组蛋
为重塑染色质的酶和转录因子产生锚定位点，进而促进 ERα 介导的转录。此外，过表达 K
通过对 H3K9me3 的去甲基化会导致 LINE-1 拷贝数、转座活性和 DNA 损伤程度增加，而 K
抑制剂的使用抑制了 LINE-1 介导的 DNA 损伤。KDM4B 在在乳腺癌、结肠癌、卵巢癌、
前列腺癌中均有高表达，其致病机制为 Tumour 的预防和靶向治疗提供线索。

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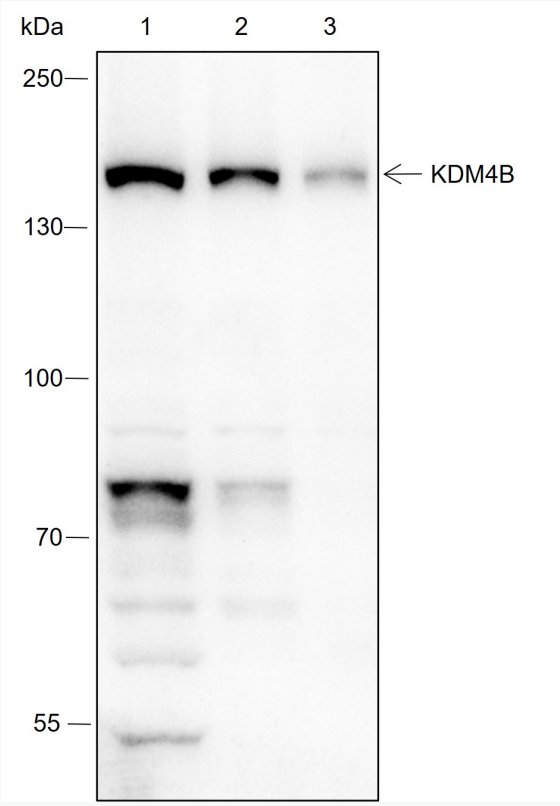
Product Picture



Blocking buffer: 5% NFDM/TBST

Primary ab dilution: 1:1000

Primary ab incubation condition: 2 hours at room temperature

Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)

Lysate: 1: T47D, 2: LNCap, 3: K562

Protein loading quantity: 20 μg

Exposure time: 60 s

Predicted MW: 122 kDa

Observed MW: 150 kDa

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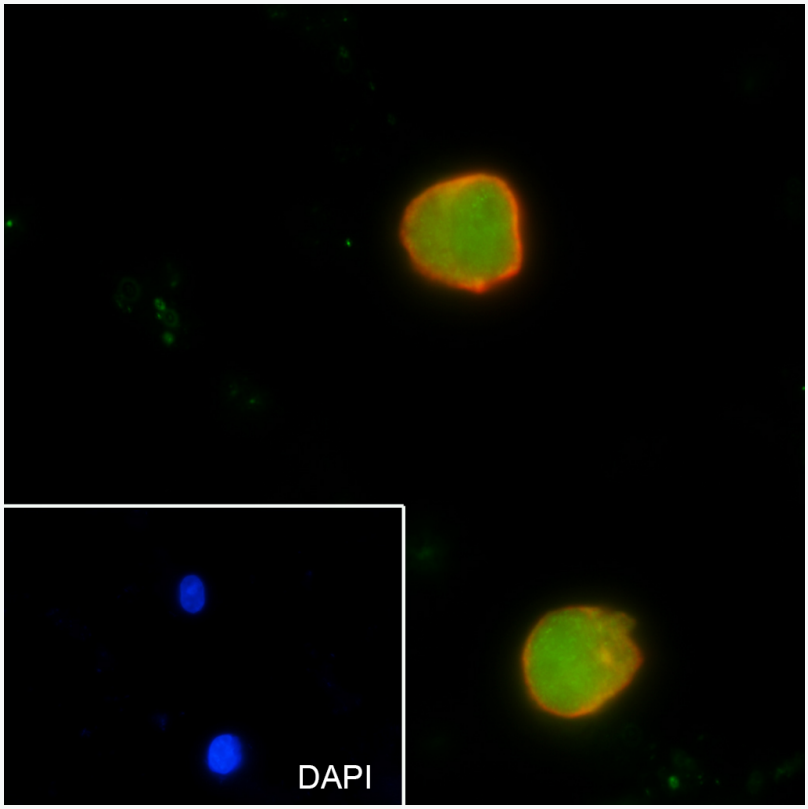

Cell line: K562

Fixative: 4% Paraformaldehyde

Permeabilization: 0.1% TritonX-100

Primary ab dilution: 1:50

Primary incubation condition: 4°C overnight

Secondary ab: Goat Anti-Rabbit IgG

Nuclear counter stain: DAPI (Blue)

Counter stain: Tubulin (Red)

Comment: Color green is the positive signal for SLM-60580R

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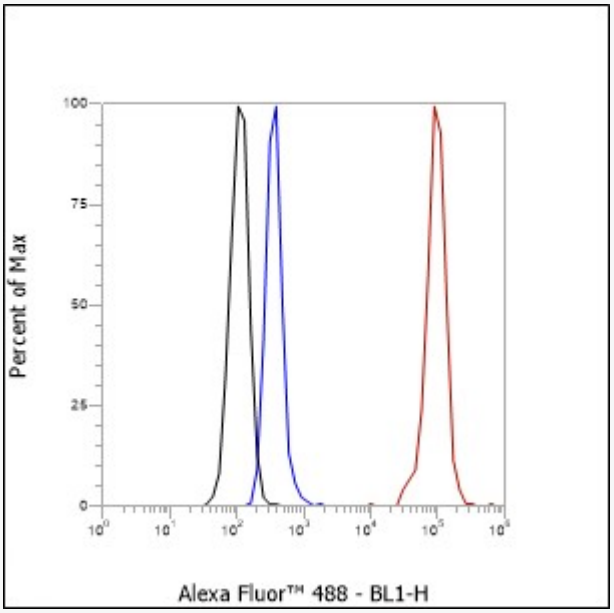

Cell line: K562

Fixative: 4% Paraformaldehyde

Permeabilization: 90% Methanol

Primary ab dilution: 1:100

Secondary ab: Goat anti Rabbit IgG

Unlabelled control: The cell without incubation with primary antibody and secondary antibod

(Black line).

Isotype control: Rabbit monoclonal IgG (Blue line).

Comment: Line red is the positive signal for SLM-60580R