

For Research Use Only

# KDM3A/JMJD1A Recombinant antibody, PBS Only

Catalog Number: 83571-6-PBS



## Basic Information

<b>Catalog Number:</b> 83571-6-PBS	<b>GenBank Accession Number:</b> BC038297	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55818	<b>CloneNo.:</b> 240532E2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y4C1	
<b>Isotype:</b> IgG	<b>Full Name:</b> lysine (K)-specific demethylase 3A	
<b>Immunogen Catalog Number:</b> AG28687	<b>Calculated MW:</b> 150 kDa	

## Applications

**Tested Applications:**  
IF/ICC, FC (Intra), ELISA

**Species Specificity:**  
human

## Background Information

KDM3A, also name as JMJD1A, JHDM2A, JMJD1, JMJD1A, KIAA0742 and TSGA, belongs to the JHDM2 histone demethylase family. It is a histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. It is involved in spermatogenesis by regulating expression of target genes such as PRM1 and TMP1 which are required for packaging and condensation of sperm chromatin. It is involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1. (PubMed:16603237), JMJD1A is a useful biomarker for hypoxic tumor cells and a prognostic marker that could be a promising therapeutic target against CRC.

## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

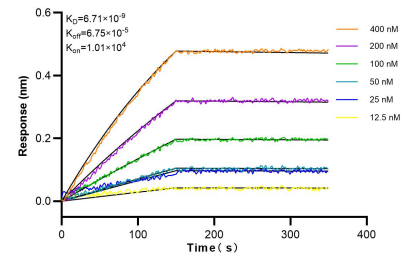
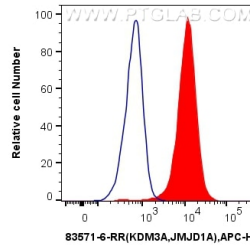
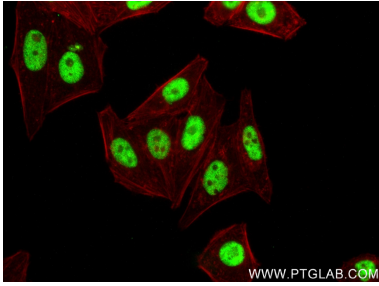
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KDM3A, JMJD1A antibody (83571-6-RR, Clone: 240532E2) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83571-6-PBS in a different storage buffer formulation.

$1 \times 10^6$  HEK-293 cells were intracellularly stained with 0.25  $\mu$ g KDM3A, JMJD1A Recombinant antibody (83571-6-RR, Clone: 240532E2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83571-6-PBS in a different storage buffer formulation.

Biolayer interferometry (BLI) kinetic assays of 83571-6-RR against Human KDM3A, JMJD1A were performed. The affinity constant is 6.71 nM.