Product Datasheet

KDM3A Antibody

Catalog No: #48411

Package Size: #48411-1 50ul #48411-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

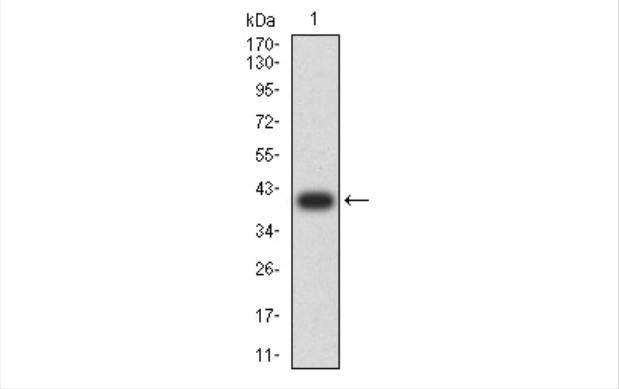
Description

Product Name	KDM3A Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	C2-G10
Purification	ProA affinity purified
Applications	WB, ICC, FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	DKFZp686A24246 antibody DKFZp686P07111 antibody JHDM2A antibody JHMD2A antibody JmjC domain-containing histone demethylation protein 2A antibody JMJD1 antibody JMJD1A antibody Jumonji C domain containing histone demethylase 2A antibody Jumonji domain containing 1 antibody Jumonji domain containing 1A antibody Jumonji domain containing protein 1A antibody Jumonji domain-containing protein 1A antibody Kdm3a antibody KDM3A_HUMAN antibody KIAA0742 antibody Lysine (K) specific demethylase 3A antibody Lysine-specific demethylase 3A antibody Testis specific protein A antibody TSGA antibody
Accession No.	Swiss-Prot#:Q9Y4C1
Uniprot	Q9Y4C1
GeneID	55818;
Calculated MW	147 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

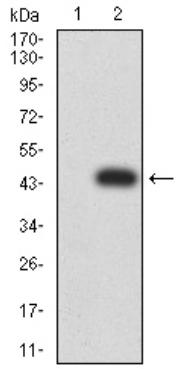
Application Details

WB: 1:500-1:2,000ICC: 1:50-1:200 FC: 1:100-1:200

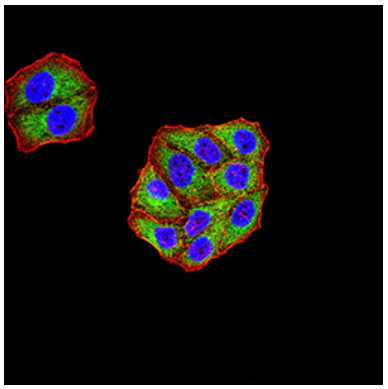
Images



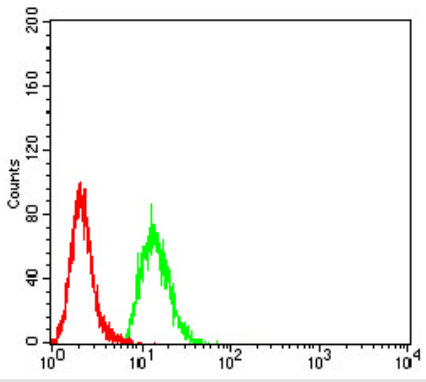
Western blot analysis of KDM3A on human KDM3A recombinant protein using anti-KDM3A antibody at 1/1,000 dilution.



Western blot analysis of KDM3A on HEK293 (1) and KDM3A-hIgGFc transfected HEK293 (2) cell lysate using anti-KDM3A antibody at 1/1,000 dilution.



ICC staining KDM3A (green) and Actin filaments (red) in Hela cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with KDM3A antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

Background

JMJD1A (Jumonji domain containing 1A), also known as TSGA (testis-specific protein A), JMJD1, KDM3A, JHDM2A (JMJC domain-containing histone demethylation protein 2A) or JHMD2A, is a member of the JHDM2 histone demethylase family of proteins that is predominantly expressed in testis. Containing one JMJC domain and a C-terminal C2HC4 zinc finger, JMJD1A functions as a mono- and dimethylation-specific demethylase, binding iron and a-ketoglutarate as cofactors and demethylating Lysine 9 of Histone H3. This suggests that JMJD1A plays a central role in the histone code and participates in nuclear hormone receptor-based transcriptional regulation. In addition, JMJD1A plays an important role in the regulation of cell growth during development and in chromatin regulation. JMJD1A directly regulates the expression of TNP1 and Protamine 1 (proteins required for the proper packaging and condensation of sperm chromatin) and, therefore, plays an essential role in spermatogenesis.

References

Note: This product is for in vitro research use only