

JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP1045b**Specification**

JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q9BY66](#)**JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 8284**Other Names**

Lysine-specific demethylase 5D, 11411-, Histocompatibility Y antigen, H-Y, Histone demethylase JARID1D, Jumonji/ARID domain-containing protein 1D, Protein SmcY, KDM5D, HY, HYA, JARID1D, KIAA0234, SMCY

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1045b](/product/products/AP1045b) was selected from the C-term region of human SMCY. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - Protein Information**Name** KDM5D**Synonyms** HY, HYA, JARID1D, KIAA0234, SMCY**Function**

Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May play a role in spermatogenesis. Involved in transcriptional repression of diverse metastasis-associated genes; in this function seems to cooperate with ZMYND8. Suppresses prostate cancer cell invasion. Regulates androgen receptor (AR) transcriptional activity by demethylating H3K4me3 active transcription marks.

Cellular Location

Nucleus {ECO:0000269|PubMed:27185910, ECO:0000269|PubMed:27477906, ECO:0000305}

Tissue Location

Expression is highly down-regulated in metastatic prostate tumors.

JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - Images**JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - Background**

SMCY is a protein containing zinc finger domains. A short peptide derived from this protein is a minor histocompatibility antigen which can lead to graft rejection of male donor cells in a female recipient.

JARID1D (KDM5D/SMCY) Antibody (C-term) Blocking peptide - References

Iwase,S., Cell 128 (6), 1077-1088 (2007) Lee,M.G., Cell 128 (5), 877-887 (2007) Piper,K.P., Biol. Reprod. 76 (1), 96-101 (2007)