

Jmjd 6

Cat.No. 277 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not recommended IP: not tested yet ICC: 1 : 500 (see remarks) IHC: not tested yet IHC-P/FFPE: not tested yet
Clone	mAb328
Subtype	IgG2a (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 403 from human Jmjd6 (UniProt Id: Q6NYC1)
Epitop	Epitop: AA 1 to 403 from human Jmjd6 (UniProt Id: Q6NYC1)
Reactivity	Reacts with: human (Q6NYC1), rat (Q6AYK2), mouse (Q9ERI5). Other species not tested yet.
Specificity	Specific for Jmjd 6. (K.O. verified)
Remarks	ICC: 0.3-0.5 % triton-100 are recommended for permeabilization to allow efficient penetration of the antibody.

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The nuclear protein **Jmjd 6** belongs to the family Jumonji domain containing proteins and catalyses the lysyl-hydroxylation of the splicing factor U2AF65. This influences alternative splicing of several endogenous and reporter genes.

In addition it has been shown to mediate the lysyl-hydroxylation of histones suggesting an implication in epigenetic regulation of gene expression or chromosomal rearrangements.

Selected References SYSY Antibodies

Intronic regulation of Aire expression by Jmjd6 for self-tolerance induction in the thymus. Yanagihara T, Sanematsu F, Sato T, Uruno T, Duan X, Tomino T, Harada Y, Watanabe M, Wang Y, Tanaka Y, Nakanishi Y, et al. *Nature communications* (2015) 6: 8820. **ICC; KO verified**
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Selected General References

High expression of JMJD6 predicts unfavorable survival in lung adenocarcinoma. Zhang J, Ni SS, Zhao WL, Dong XC, Wang JL *Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine* (2013) 34(4): 2397-401.
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 JMJD6 is a histone arginine demethylase. Chang B, Chen Y, Zhao Y, Bruick RK *Science (New York, N.Y.)* (2007) 318(5849): 444-7.