

Anti-RBP2/JARID1A antibody, mouse monoclonal (18E8)

71-177 50 μ g

RBP2 was originally identified as a RB binding protein. It is also known as JARID1A (Jumonji, AT rich interactive domain 1A). RBP2 plays both negative and positive roles in RB-mediated transcriptional activation, depending on the kinds of genes and regulates differentiation by its function as the H3K4 histone demethylase (1,2,3).

Applications

1. Western blotting ($\sim 1 \mu$ g/ml)
2. Other applications were not tested.

Specification

Immunogen: A synthetic peptide corresponding to a sequence of human RBP2

Isotype: Mouse IgG2a kappa

Form: Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized

Specificity: Specific to human and mouse RBP2. Can detect endogenous levels of RBP2

Storage: -20°C (long period, -70°C)

References:

1. Lopez-Bigas N et al. Genome-wide analysis of the H3K4 demethylase RBP2 reveals a transcriptional program controlling differentiation. *Mol Cell* 31: 520-30 (2008)
2. Klose RJ et al. The retinoblastoma binding protein BRP2 is an H3K4 demethylase. *Cell* 128: 889-900 (2007)
3. Christensen J. et al. RBP2 belongs to a family of demethylases, specific for tri- and dimethylated lysine 4 on histone 3. *Cell* 128:1063-76 (2007)

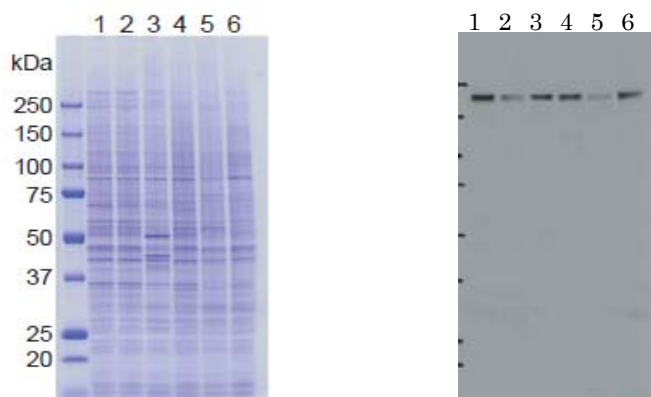
Figure. Identification of RBP2 in crude cell extracts by western blotting with antibody 18E8.

Samples: 1. HeLa control siRNA 2. HeLa RBP2 siRNA

3. MCF7
4. U2OS
5. NIH3T3
6. J1 (mouse ES)

A. SDS-PAGE with CBB staining

B. Western blotting (detection:ECL)



Related product: #71-175 anti-RBP2/ JARID1A antibody, mouse monoclonal (9A6)