



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-71-177-EX

Anti-RBP2/JARID1A (Clone 18E8)

BACKGROUND

RBP2 was originally identified as a retinoblastoma 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 an H3K4 histone demethylase (1, 2 & 3).

| | |
|----------------------|---|
| Product type | Primary antibodies |
| Host | Mouse |
| Source | |
| Form | Liquid Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized |
| Volume | 50 µg |
| Concentration | |
| Specificity | |
| Antigen | A synthetic peptide corresponding to human RBP2, amino acids 1416-1434. |
| Clone | 18E8 |
| Isotype | Mouse IgG2a kappa |

Application notes WB Other applications were not tested.

Recommended use

Recommended dilutions

Western blotting: ~1 µg/ml

Optimal dilutions/concentrations should be determined by the end user.

Data Link: UniProtKB/Swiss-Prot [P29375](#) (KDM5A_HUMAN)

Staining Pattern

Cross reactivity Specific to human and mouse RBP2. Can detect endogenous levels of RBP2.

Storage -20°C (for long period; -70°C)

- References**
- 1) Lopez-Bigas N *et al* "Genome-wide analysis of the H3K4 histone demethylase RBP2 reveals a transcriptional program controlling differentiation" *Mol Cell* **31**: 520-530 (2008) PMID: [18722178](#)
 - 2) Klose RJ *et al* "The retinoblastoma binding protein BRP2 is an H3K4 demethylase" *Cell* **128**: 889-900 (2007) PMID: [17320163](#)
 - 3) Christensen J *et al* "RBP2 belongs to a family of demethylases, specific for tri- and dimethylated lysine 4 on histone 3" *Cell* **128**:1063-1076 (2007) PMID: [17320161](#)

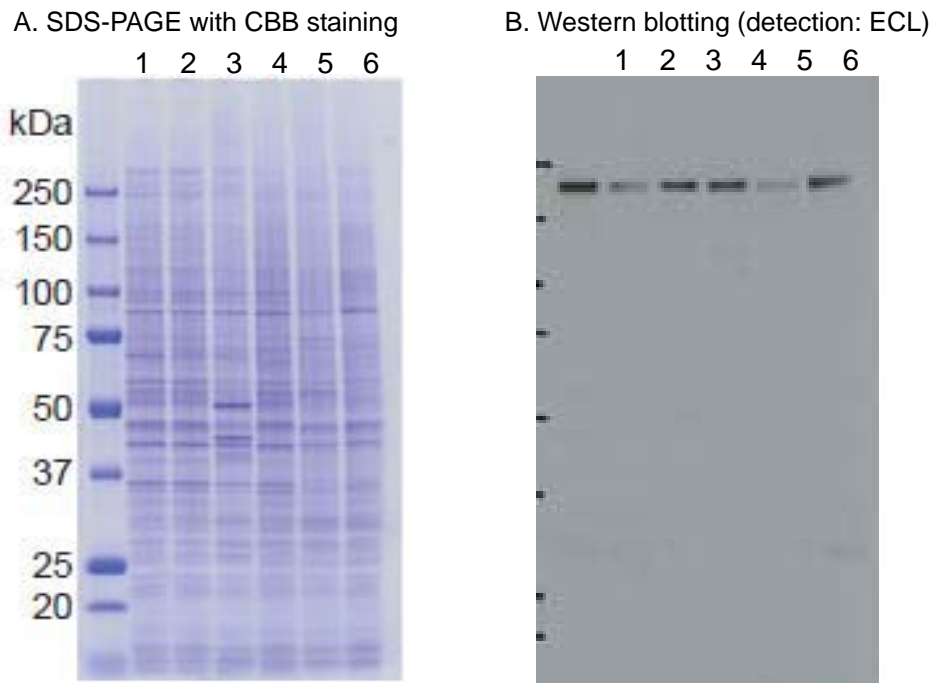


Figure Identification of RBP2 in crude cell extracts by Western blotting with antibody 18E8.

Samples: 1. HeLa control siRNA 2. HeLa RBP2 siRNA 3. MCF7
4. U2OS 5. NIH3T3 6. J1 (mouse ES)

Related Products

BAM-71-175-EX Anti-RBP2/ JARID1A antibody, mouse monoclonal (9A6)

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