Anti-KDM5A/ RBP2/ JARID1A antibody, mouse monoclonal (18E8), KO Validated

71-177 100 ug

Storage: Shipt at 4℃ or at -20℃ and store at -20℃

Reactivity: Human and mouse RBP2. Can detect endogenous levels of RBP2.

Validation: Specificity was validated with KO cells (human) for Western Blotting.

Immunogen: A synthetic peptide corresponding to human RBP2, amino acids 1416-1434.

Applications

1. Western blotting (~1ug/ml)
2. Immunofluorescence staining (~1 ug/ml)
3. Flow Cytometry (1μg for 10^6 cells.)

Isotype: Mouse IgG2a kappa

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

Backgroud: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).

Data Link UniProtKB/Swiss-Prot P29375 (KDM5A_HUMAN)

SDS-PAGE with CBB staining Western blotting (detection: ECL)

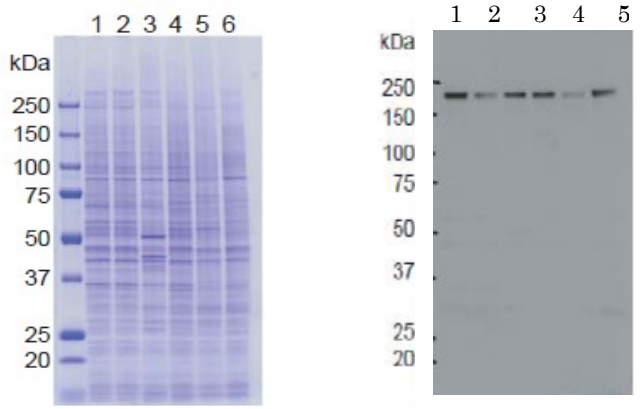
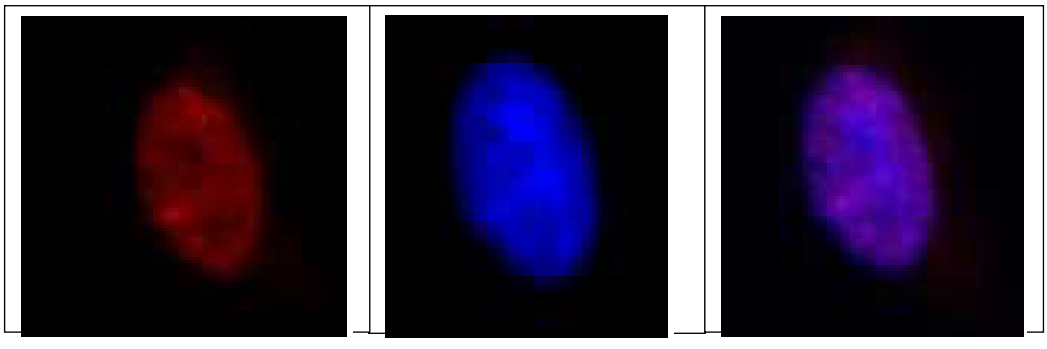


Fig.1 Weastern blot of RBP2 in crude cell extracts

Samples:

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



Anti-RBP2 antibody **DAPI** **MERGE**

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Fig.2 Immunofluorescence staining of HeLa cell with anti-RBP" antibody

1. HeLa cells were fixed with 4% paraformaldehyde overnight, permealized with 0.25% Triton X-100 in PBS for 10 min.
2. Incubate cells with 1.5% BSA in PBS for 30 min to block non-specific binding of the antibodies. Incubate the cells with 1/2,000 diluted anti-RBP2 antibody (18E8) in 1% BSA in PBS at 4℃ overnight.
3. Incubate cells with a secondary antibody, goat anti-mouse IgG conjugated with Alex 488, at 1/1,000 dilution in 1% BSA for 1 hr at room temperature.
4. Nucleus (DNA) was stained with DAPI

References: This antibody has been used in the following publication.

1..Nishibuchi G et al. Physical and functional interactions between the histone H3K4 demethylase KDM5A and the nucleosome remodeling and deacetylase (NuRD) complex. J Biol Chem. 2014 Oct 17;289(42):28956-70. PMID: 25190814

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