

Catalog No. 71-190EX

Anti-EID1 antibody, mouse monoclonal (clone 2)

BACKGROUND

EID1 (EP300 interacting inhibitor of differentiation 1) encodes a 21 kDa protein, which interacts with RB1 and EP300 and acts as a repressor of MYOD1 transcription. *EID1* inhibits EP300 and CBP histone acetyltransferase activity. It may be involved in coupling cell cycle exit to the transcription of genes required for cellular differentiation.

Applications

- 1) Western blotting (~1 ug/ml).
- 2) Immunofluorescence staining (~1 ug/ml). Other applications have not been tested.

Immunogen: Synthetic peptide containing amino acids 1-19 of human *EID1* protein

Specificity: Reacts with human *EID1* protein. Not tested for other species.

Isotype: Mouse IgG2a (κ)

Product: This product was purified by our proprietary chromatography under mild conditions as IgG fraction from serum-free growth medium of mouse hybridoma clone 2.

Form: 1mg/ml in PBS (pH 7.4), 50% glycerol, sterilized by filtration. Azide- and carrier-free.

Size: 50 ug

Storage: Shipped at 4°C or -20°C. Upon arrival, spin-down and store at -20°C.

Data Link UniProtKB/Swiss-Prot [Q9Y6B2](#) (*EID1_HUMAN*)

References

1. MacLellan WR *et al* "A novel Rb- and p300-binding protein inhibits transactivation by MyoD" *Mol Cell Biol* **20**:8903-8915 (2000) PMID: [11073990](#)
2. Nguyen DX *et al* "Acetylation regulates the differentiation-specific functions of the retinoblastoma protein" *EMBO J* **23**: 1609-1618 (2004) PMID: [15044952](#)

Figure Identification of the *EID1* protein by the monoclonal antibody (clone #2) by Western blotting.

Crude cell extracts of MCF7 cells (breast cancer cell line) transfected with control vector pCMV1 (lane 1) or the *EID1* expression vector pcDNA3/*EID1* (lane 2) were analyzed by Western blotting using anti-*EID1* antibody clone #2 as the primary antibody and HRP-conjugated-mouse IgG as the secondary antibody. The *EID1* protein was identified as a 21 kDa protein band as shown by an arrow.



Related Product # [71-185EX](#) anti-*EID1* antibody, monoclonal (# 26)

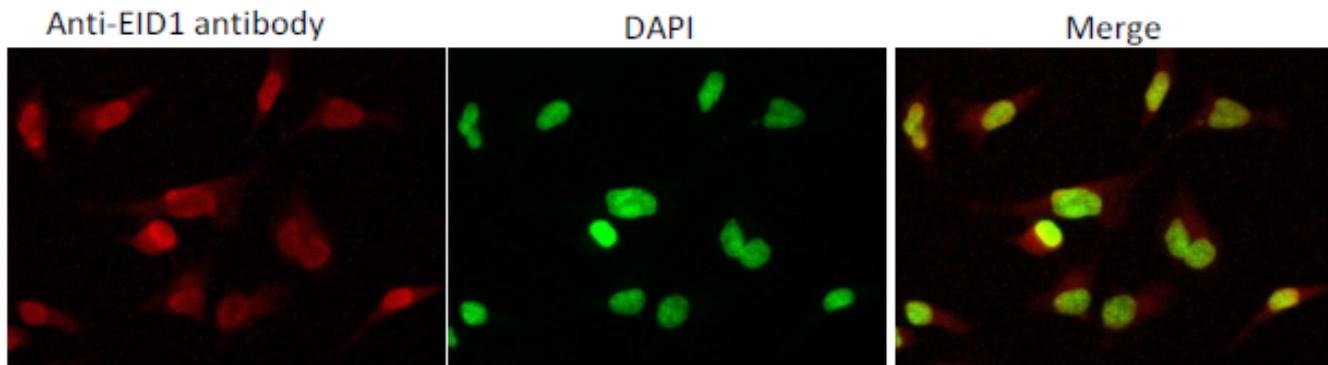


Fig. 2. Indirect immunofluorescence staining of EID1 protein by anti-EID1 antibody (clone 2) in HeLa cell.. EID1 protein is localized in nuclei.

HeLa cells grown

Fixation of the cells in 4% paraformaldehyde over night

Permeabilization in 0.25% Triton X-100/PBS for 10 min

Blocking in 1.5% BSA/PBS for 30 min

Incubation over night in anti-EID1 antibody (clone 2) diluted to 1/1,000 by blocking buffer

Incubation for 60min in 2nd antibody, Goat anti-rabbit IgG conjugated with Alex 488 (1:1,000 dilution)

Nuclei were stained with DAPI

The images show that majority of EID1 detected by this antibody is localized in nucleus and subfraction may be localized in cytoplasm, and that it may shuttle between them as described in some literatures.

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