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EID-2 (m): 293T Lysate: sc-126774

BACKGROUND

As a regulator of transcription via chromatin remodeling, p300 is a histone acetyltransferase that binds to adenovirus E1A protein and may play a role in its transforming capacity. EID-2 (EP300-interacting inhibitor of differentiation 2), also known as CREBBP/EP300 inhibitor 2, is a 236 amino acid nuclear protein that cooperates with EID-2B to bind to the C-terminus of p300 to inhibit its activity. It also represses MYOD-dependent transcription and muscle differentiation. By interacting with SMAD2, SMAD3 and SMAD4, EID-2 selectively blocks the formation of TGF β -induced SMAD3-SMAD4 complex, thereby repressing TGF β /SMAD3-dependent signaling. Though it is abundantly expressed in placenta, EID-2 is highly expressed in skeletal muscle, heart, liver, brain and kidney. There are two isoforms of EID-2 that are produced as a result of alternative splicing events.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: Eid2 (mouse) mapping to 7 A3.

PRODUCT

EID-2 (m): 293T Lysate represents a lysate of mouse EID-2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

EID-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive EID-2 antibodies. Recommended use: 10-20 μ l per lane.

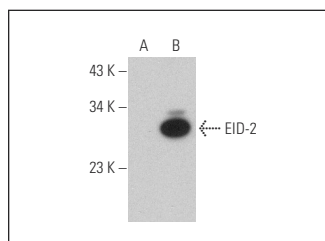
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

EID-2 (C-8): sc-514902 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse EID-2 expression in EID-2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



EID-2 (C-8): sc-514902. Western blot analysis of EID-2 expression in non-transfected: sc-117752 (A) and mouse EID-2 transfected: sc-126774 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.