CtBP (E-12): sc-17759

BACKGROUND
CtBP1 is a cellular phosphoprotein that associates with various proteins and functions as a corepressor of transcription. CtBP1 and the related protein CtBP2 are characterized as C-terminal binding protein of adenovirus E1A, and they preferentially associate with the E1A via a five amino acid motif, PLDLS, to repress E1A induced oncogenesis and cellular transformation. CtBP1 is expressed from embryo to adult, but CtBP2 is mainly expressed during embryogenesis. During skeletal and T cell development, CtBP1 and CtBP2 associate with the PLDLS domain of ΔEF1, a cellular zinc finger-homeo-domain protein, and thereby enhances ΔEF1 induced transcriptional silencing. In addition, CtBP complexes with CtIP, a protein that recognizes distinctly different protein motifs from CtBP. CtIP binds to the BRCT repeats within the breast cancer and thereby enhances regulating p21 transcription in response to DNA damage.

CHROMOSOMAL LOCATION
Genetic locus: CtBP1 (human) mapping to 4p16.3, CtBP2 (human) mapping to 10q26.13; Ctbp1 (mouse) mapping to 5B1, Ctbp2 (mouse) mapping to 7F3.

SOURCE
CtBP (E-12) is a mouse monoclonal antibody raised against amino acids 1-440 of CtBP1 of human origin.

PRODUCT
Each vial contains 200 μg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CtBP (E-12) is available conjugated to agarose (sc-17759 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-17759 HRP), 200 μg/ml, for WB, IHC(P) and FCM.

APPLICATIONS
CtBP (E-12) is recommended for detection of CtBP1 and CtBP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:200-1:2000), immunoprecipitation (1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of CtBP: 48 kDa.

Positive Controls: Neuro-2A whole cell lysate: sc-364185, NRK whole cell lysate: sc-364197 or SH-SY5Y whole cell lysate: sc-3812.

STORAGE
Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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

DATA

SELECT PRODUCT CITATIONS

PROTOCOLS
See our website at www.scbt.com for detailed protocols and support products.