DEDD (H-4): sc-271192

BACKGROUND
Apoptosis is a physiological process by which multicellular organisms eliminate unwanted cells. DEDD (death effector domain-containing DNA binding protein) induces apoptosis by triggering a series of intracellular protein-protein interactions mediated by the N-terminal DED motif. DEDD, a cytoplasmic protein, translocates to the nucleus during CD95-mediated apoptosis, where it localizes to nucleoli-like structures, activates caspase-6 and specifically inhibits RNA polymerase I-dependent transcription. The cell death activity of DEDD relates to its nuclear localization. The DED in DEDD is sufficient for its DNA binding, caspase-6 activating and Pol I specific transcriptional repressor activity. Point specific mutations indicate that the DED in DEDD represents a novel domain that is structurally similar to other DEDs but functionally different from classical DEDs found in FADD or caspase-8. DEDD is widely expressed in a variety of tissues, with highest levels in the testis. The human DEDD gene maps to chromosome 1q23.3. Alternative splicing results in two transcript variants which encode the same protein.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: DEDD (human) mapping to 1q23.3; Dedd (mouse) mapping to 1 H3.

SOURCE
DEDD (H-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 278-313 near the C-terminus of DEDD of human origin.

PRODUCT
Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
DEDD (H-4) is available conjugated to agarose (sc-271192 AC), 500 µg/0.25 ml agarose in 1 ml for IP; to HRP (sc-271192 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271192 PE), fluorescein (sc-271192 FITC), Alexa Fluor® 488 (sc-271192 AF488), Alexa Fluor® 546 (sc-271192 AF546), Alexa Fluor® 594 (sc-271192 AF594) or Alexa Fluor® 647 (sc-271192 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271192 AF680) or Alexa Fluor® 790 (sc-271192 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.
Blocking peptide available for competition studies, sc-271192 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).
Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

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

APPLICATIONS
DEDD (H-4) is recommended for detection of DEDD of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), 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).
DEDD (H-4) is also recommended for detection of DEDD in additional species, including equine, canine, bovine and porcine.
Suitable for use as control antibody for DEDD siRNA (h): sc-37383, DEDD siRNA (m): sc-37384, DEDD shRNA Plasmid (h): sc-37383-SH, DEDD shRNA Plasmid (m): sc-37384-SH, DEDD shRNA (h) Lentiviral Particles: sc-37383-V and DEDD shRNA (m) Lentiviral Particles: sc-37384-V.
Molecular Weight of DEDD: 37 kDa.
Positive Controls: Jurkat whole cell lysate: sc-2204, NIH/3T3 whole cell lysate: sc-2210 or C2C12 whole cell lysate: sc-364188.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG B P-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker) : sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB: sc-516102-HRP (Cruz Marker™) and solid phase ELISA.

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