

EDD (N-19): sc-9561

BACKGROUND

EDD (for E3 identified by differential display) is a progesterone-regulated gene that was isolated from T-47D human breast cancer cells. Based on sequence homology, EDD appears to be a human homolog of the *Drosophila* hyperplastic discs (hyd) gene, a tumor suppressor gene that is required for control of imaginal disc growth. EDD contains a HECT domain in the carboxy terminus. HECT domain-containing proteins function as ubiquitin-protein ligases, or E3 enzymes. EDD has been shown to bind to ubiquitin, and like other HECT family proteins, may function as an E3 ubiquitin-protein ligase.

REFERENCES

1. Mansfield, E., et al. 1994. Genetic and molecular analysis of hyperplastic discs, a gene whose product is required for regulation of cell proliferation in *Drosophila melanogaster* imaginal discs and germ cells. *Dev. Biol.* 165: 507-526.
2. Huibregtse, J.M., et al. 1995. A family of proteins structurally and functionally related to the E6-AP ubiquitin-protein ligase. *Proc. Natl. Acad. Sci. USA* 92: 5249.

CHROMOSOMAL LOCATION

Genetic locus: UBR5 (human) mapping to 8q22.3.

SOURCE

EDD (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of EDD of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9561 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EDD (N-19) is recommended for detection of EDD of human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EDD (N-19) is also recommended for detection of EDD in additional species, including canine and bovine.

Suitable for use as control antibody for EDD siRNA (h): sc-43744, EDD shRNA Plasmid (h): sc-43744-SH and EDD shRNA (h) Lentiviral Particles: sc-43744-V.

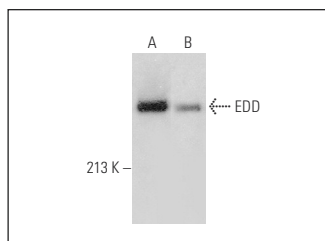
Molecular Weight of EDD: 309 kDa.

Positive Controls: IMR-32 nuclear extract: sc-2148, A549 cell lysate: sc-2413 or HEK293 whole cell lysate: sc-45136.

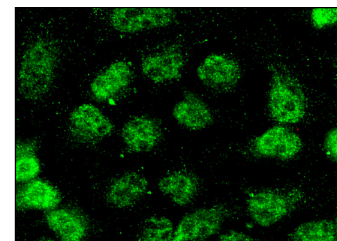
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



EDD (N-19): sc-9561. Western blot analysis of EDD expression in HEK293 (A) and A549 (B) whole cell lysates.



EDD (N-19): sc-9561. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

SELECT PRODUCT CITATIONS

1. Henderson, M.J., et al. 2002. EDD, the human hyperplastic discs protein, has a role in progesterone receptor coactivation and potential involvement in DNA damage response. *J. Biol. Chem.* 277: 26468-26478.
2. Ohshima, R., et al. 2007. Putative tumor suppressor EDD interacts with and up-regulates APC. *Genes Cells* 12: 1339-1345.

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.

PROTOCOLS

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



Try **EDD (B-11): sc-515494** or **EDD (C-3): sc-515485**, our highly recommended monoclonal alternatives to EDD (N-19).