

UBE2O (N-12): sc-109125

BACKGROUND

UBE2O (ubiquitin-conjugating enzyme E2O), also known as E2-230K, is a 1,292 amino acid member of the ubiquitin-conjugating enzyme family that is involved in protein modification. Expressed predominately in heart and skeletal muscle, UBE2O functions to catalyze the ATP-dependent covalent attachment of ubiquitin to select proteins, thereby targeting the ubiquitinated proteins for proteasomal degradation. The gene encoding UBE2O maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: UBE2O (human) mapping to 17q25.1; Ube2o (mouse) mapping to 11 E2.

SOURCE

UBE2O (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of UBE2O 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-109125 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

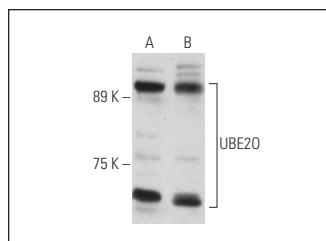
UBE2O (N-12) is recommended for detection of UBE2O of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for UBE2O siRNA (h): sc-94199, UBE2O siRNA (m): sc-154855, UBE2O siRNA (r): sc-156073, UBE2O shRNA Plasmid (h): sc-94199-SH, UBE2O shRNA Plasmid (m): sc-154855-SH, UBE2O shRNA Plasmid (r): sc-156073-SH, UBE2O shRNA (h) Lentiviral Particles: sc-94199-V, UBE2O shRNA (m) Lentiviral Particles: sc-154855-V and UBE2O shRNA (r) Lentiviral Particles: sc-156073-V.

Molecular Weight of UBE2O: 141 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or LADMAC whole cell lysate: sc-364189.

DATA



UBE2O (N-12): sc-109125. Western blot analysis of UBE2O expression in HeLa (A) and LADMAC (B) whole cell lysates.

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.

MONOS
Satisfaction
Guaranteed

Try **UBE2O (2C10): sc-293246**, our highly recommended monoclonal alternative to UBE2O (N-12).