SANTA CRUZ BIOTECHNOLOGY, INC.

CNDP2 (AT15E5): sc-517394



BACKGROUND

CNDP2 is a cytosolic, non-specific dipeptidase that belongs to the peptidase M20A family of proteins. CNDP2 is a secreted peptidase homologous to M20 peptidases. CNDP2 is expressed by all adult and fetal tissue, however, an isoform lacking exons 3 and 4 was expressed in all fetal tissue, but only in adult liver. In human hepatocellular carcinoma (HCC) cells, this isoform (also referred to as CPGL-B, carboxypeptidase of glutamate like-B) is frequently underexpressed. This underexpression shows a significant correlation with HCC venous invasion and tumor microsatellite formations. Overexpression of CPGL-B in hepatocellular carcinoma cells leads to significant inhibition of HC cell viability, colony formation, cell invasiveness and tumor formation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CNDP2 (human) mapping to 18q22.3; Cndp2 (mouse) mapping to 18 E4.

SOURCE

CNDP2 (AT15E5) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 1-475 of CNDP2 of human origin.

PRODUCT

Each vial contains 100 $\mu g~lgG_1$ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **D0 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.

APPLICATIONS

CNDP2 (AT15E5) is recommended for detection of CNDP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 μ g per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CNDP2 siRNA (h): sc-72935, CNDP2 siRNA (m): sc-72936, CNDP2 shRNA Plasmid (h): sc-72935-SH, CNDP2 shRNA Plasmid (m): sc-72936-SH, CNDP2 shRNA (h) Lentiviral Particles: sc-72935-V and CNDP2 shRNA (m) Lentiviral Particles: sc-72936-V.

Molecular Weight of CNDP2: 53 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, human kidney extract: sc-363764 or human spleen extract: sc-363779.

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 MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



CNDP2 expression in Jurkat (A) and H69AR (B) whole cell lysates and human kidney (C), human spleen (D) and mouse kidney (E) tissue extracts.

PROTOCOLS

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