NOC2L (I-16): sc-130178



The Power to Question

BACKGROUND

GADD 153, a growth arrest and DNA damage-inducible gene, encodes a C/EBP-related nuclear protein. This protein has also been designated C/EBP-homologous protein (CHOP-10 or C/EBP ζ). GADD 153 expression is induced by a variety of cellular stresses, inducing nutrient deprivation and metabolic perturbations. GADD 153 functions to block cells in G_1 to S phase during cell cycle progression and acts by dimerizing with other C/EBP proteins to direct GADD 153 dimers away from "classical" C/EBP binding sites, recognizing instead unique "nonclassical" sites. Thus, GADD 153 acts as a negative modulator of C/EBP-like proteins in certain terminally differentiated cells. GADD 153 belongs to the CBF/MAK21 family, which also includes NOC2L, NOC3L and NOC4L. NOC2L is a 749 amino acid nuclear protein that may play a role in cell cycle regulation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NOC2L (human) mapping to 1p36.33; Noc2l (mouse) mapping to 4.

STORAGE

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

SOURCE

NOC2L (I-16) is a purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of NOC2L of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NOC2L (I-16) is recommended for detection of NOC2L of mouse 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NOC2L siRNA (h): sc-88134, NOC2L siRNA (m): sc-156064, NOC2L shRNA Plasmid (h): sc-88134-SH, NOC2L shRNA Plasmid (m): sc-156064-SH, NOC2L shRNA (h) Lentiviral Particles: sc-88134-V and NOC2L shRNA (m) Lentiviral Particles: sc-156064-V.

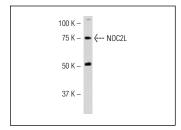
Molecular Weight of NOC2L: 85 kDa.

Positive Controls: A-375 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

DATA



NOC2L (I-16): sc-130178. Western blot analysis of NOC2L expression in A-375 whole cell lysate.

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.