SANTA CRUZ BIOTECHNOLOGY, INC.

PTD015 (N-15): sc-138555

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PTD015 is a 122 amino acid protein that belongs to the UPF0366 family. Existing as three alternatively spliced isoforms, the PTD015 gene is conserved in canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 11q14.1. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11. The PTD015 gene product has been provisionally designated PTD015 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AAMDC (human) mapping to 11q14.1; Aamdc (mouse) mapping to 7 E2.

SOURCE

PTD015 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of PTD015 of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-138555 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PTD015 (N-15) is recommended for detection of PTD015 of human origin, 1810020D17Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with PTD012.

PTD015 (N-15) is also recommended for detection of PTD015 in additional species, including equine, bovine and avian bovine.

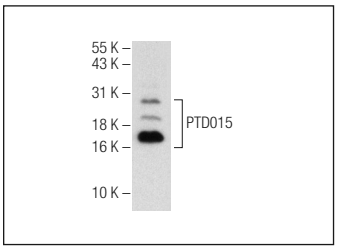
Suitable for use as control antibody for PTD015 siRNA (h): sc-96837, 1810020D17Rik siRNA (m): sc-108554, PTD015 shRNA Plasmid (h): sc-96837-SH, 1810020D17Rik shRNA Plasmid (m): sc-108554-SH, PTD015 shRNA (h) Lentiviral Particles: sc-96837-V and 1810020D17Rik shRNA (m) Lentiviral Particles: sc-108554-V.

Positive Controls: Hep G2 cell lysate: sc-2227.

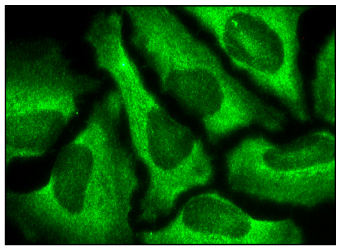
RECOMMENDED SECONDARY REAGENTS

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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PTD015 (N-15): sc-138555. Western blot analysis of PTD015 expression in Hep G2 whole cell lysate.



PTD015 (N-15): sc-138555. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

STORAGE

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