

PTD012 (E-14): sc-136821

BACKGROUND

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 PTD012 gene product has been provisionally designated PTD012 pending further characterization.

CHROMOSOMAL LOCATION

Genetic locus: C11orf54 (human) mapping to 11q21; 70984 (mouse) mapping to 9 A2.

SOURCE

PTD012 (E-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of PTD012 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-136821 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

PTD012 (E-14) is recommended for detection of PTD012 isoforms 1-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g 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 PTD015.

PTD012 (E-14) is also recommended for detection of PTD012 isoforms 1-4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PTD012 siRNA (h): sc-96701, 4931406C07Rik siRNA (m): sc-140220, PTD012 shRNA Plasmid (h): sc-96701-SH, 4931406C07Rik shRNA Plasmid (m): sc-140220-SH, PTD012 shRNA (h) Lentiviral Particles: sc-96701-V and 4931406C07Rik shRNA (m) Lentiviral Particles: sc-140220-V.

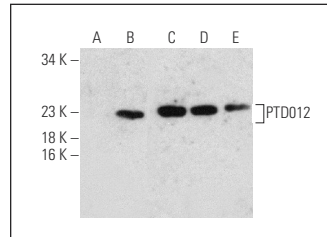
Molecular Weight of PTD012 isoforms: 23-35 kDa.

Positive Controls: PTD012 (h2): 293T Lysate: sc-177798, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

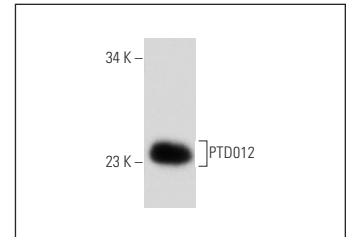
RECOMMENDED SECONDARY REAGENTS

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



PTD012 (E-14): sc-136821. Western blot analysis of PTD012 expression in non-transfected 293T: sc-117752 (A), human PTD012 transfected 293T: sc-177798 (B), Jurkat (C), HeLa (D) and Hep G2 (E) whole cell lysates.



PTD012 (E-14): sc-136821. Western blot analysis of PTD012 expression in mouse embryo tissue extract.

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.


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Try **PTD012 (E-3): sc-390408**, our highly recommended monoclonal alternative to PTD012 (E-14).