SANTA CRUZ BIOTECHNOLOGY, INC.

Pdcd-7 (S-18): sc-101250

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PD-1 (programmed cell death-1 protein) is a type I transmembrane receptor and a member of the immunoglobin gene superfamily. Expression of PD-1 is detected in mouse thymus, and it is induced in stimulated B and T cell lines, where it may play a role in the negative regulation of various immune responses. PD-2 (also known as PDCD2, PDL2 or B7DC) is highly expressed in placenta, heart, pancreas, lung and liver. PD-2 is also expressed in spleen, lymph nodes and thymus. Pdcd-4 is a nuclear protein localized to the nucleus of proliferating cells. ALG-2 (apoptosis-linked gene 2), also designated programmed cell death protein 6, is a Ca^{2+}-binding protein that participates in regulatory events occurring late in the apoptotic program and where several death signals converge. Pdcd-7, also designated programmed cell death protein 7, is a 485 amino acid protein that promotes apoptosis when overexpressed. Human Pdcd-7 and the mouse Pdcd-7 protein, designated as Es18, share 95% homology in the overlapping region.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PDCD7 (human) mapping to 15q22.31; Pdcd7 (mouse) mapping to 9 C.

SOURCE

Pdcd-7 (S-18) is a mouse monoclonal antibody raised against recombinant Pdcd-7 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Pdcd-7 (S-18) is recommended for detection of Pdcd-7 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pdcd-7 siRNA (h): sc-90046, Pdcd-7 siRNA (m): sc-72132, Pdcd-7 shRNA Plasmid (h): sc-90046-SH, Pdcd-7 shRNA Plasmid (m): sc-72132-SH, Pdcd-7 shRNA (h) Lentiviral Particles: sc-90046-V and Pdcd-7 shRNA (m) Lentiviral Particles: sc-72132-V.

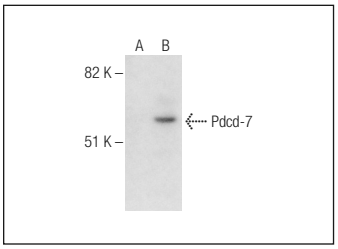
Molecular Weight of Pdcd-7: 55 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Pdcd-7 (m2): 293T Lysate: sc-179313.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ 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).

DATA



Pdcd-7 (S-18): sc-101250. Western blot analysis of Pdcd-7 expression in non-transfected: sc-117752 (**A**) and mouse Pdcd-7 transfected: sc-179313 (**B**) 293T 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 for detailed protocols and support products.