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Pdcd2L (K-13): sc-101251



BACKGROUND

Pdcd-1 (programmed cell death-1 protein) is a type I transmembrane receptor and a member of the immunoglobin gene superfamily. Expression of Pdcd-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. Pdcd-2 (programmed cell death-2), also known as PD-2, PDL2 or B7DC, is highly expressed in placenta, heart, pancreas, lung and liver, and lowly expressed in spleen, lymph nodes and thymus. Pdcd2L (programmed cell death 2-like), also known as MGC13096, is a 358 amino acid protein that is similar to Pdcd-2 and may play a role in apoptosis.

REFERENCES

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- Li, W., et al. 2000. Increased expression of apoptosis-linked gene 2 (ALG2) in the rat brain after temporary focal cerebral ischemia. Neuroscience 96: 161-168.
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- Chen, Q., et al. 2005. Cloning of cDNAs with PDCD2_C domain and their expressions during apoptosis of HEK293T cells. Mol. Cell. Biochem. 280: 185-191.
- Liu, Z. and Aune, T.M. 2006. Deregulated stress system in non-obese diabetic lymphocyte. Genes Immun. 7: 352-358.

CHROMOSOMAL LOCATION

Genetic locus: PDCD2L (human) mapping to 19q13.11; Pdcd2l (mouse) mapping to 7 B1.

SOURCE

Pdcd2L (K-13) is a mouse monoclonal antibody raised against recombinant Pdcd2L 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.

RESEARCH USE

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

APPLICATIONS

Pdcd2L (K-13) is recommended for detection of Pdcd2L 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pdcd2L siRNA (h): sc-97629, Pdcd2L siRNA (m): sc-152125, Pdcd2L shRNA Plasmid (h): sc-97629-SH, Pdcd2L shRNA Plasmid (m): sc-152125-SH, Pdcd2L shRNA (h) Lentiviral Particles: sc-97629-V and Pdcd2L shRNA (m) Lentiviral Particles: sc-152125-V.

Molecular Weight of Pdcd2L: 39 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ 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





Pdcd2L (K-13): sc-101251. Western blot analysis of Pdcd2L expression in HeLa whole cell lysate.

PDCD2L (K-13): sc-101251. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization.

SELECT PRODUCT CITATIONS

 Houston, B.J., et al. 2020. Programmed cell death 2-like (Pdcd2I) is required for mouse embryonic development. G3 10: 4449-4457.

STORAGE

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

PROTOCOLS

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