PASD1 (D-15): sc-138504



The Power to Question

BACKGROUND

Melanoma-associated antigens recognized by cytotoxic T lymphocytes (CTL) have been grouped into three categories: melanocyte differentiation antigens, cancer/testis-specific antigens and mutated or aberrantly expressed antigens. Many of these antigens consist of peptides that are presented to T cells by HLA molecules; they represent potential targets for cancer immunotherapy. PASD1 (PAS domain-containing protein 1), also known as CT63 (cancer/testis antigen 63) or OX-TES-1, is a 773 amino acid nuclear protein that contains one PAS (PER-ARNT-SIM) domain and belongs to the cancer/testis-specific antigen family. Expressed in normal testis and in diffuse large B-cell lymphoma-derived cell lines, PASD1 is thought to function as a transcription factor and may be a potential multiple myeloma-associated antigen. Two isoforms of PASD1 exist due to alternative splicing events.

REFERENCES

- Liggins, A.P., et al. 2004. A novel diffuse large B-cell lymphoma-associated cancer testis antigen encoding a PAS domain protein. Br. J. Cancer 91: 141-149.
- Liggins, A.P., et al. 2004. Serologic detection of diffuse large B-cell lymphoma-associated antigens. Int. J. Cancer 110: 563-569.
- Guinn, B.A., et al. 2005. Humoral detection of leukaemia-associated antigens in presentation acute myeloid leukaemia. Biochem. Biophys. Res. Commun. 335: 1293-1304.
- 4. Sahota, S.S., et al. 2006. PASD1 is a potential multiple myeloma-associated antigen. Blood 108: 3953-3955.
- Cooper, C.D., et al. 2006. PASD1, a DLBCL-associated cancer testis antigen and candidate for lymphoma immunotherapy. Leukemia 20: 2172-2174.
- Chiriva-Internati, M., et al. 2007. Advances in immunotherapy of multiple myeloma: from the discovery of tumor-associated antigens to clinical trials. Int. Rev. Immunol. 26: 197-222.
- 7. Kohno, T., et al. 2008. Association of KRAS polymorphisms with risk for lung adenocarcinoma accompanied by atypical adenomatous hyperplasias. Carcinogenesis 29: 957-963.

CHROMOSOMAL LOCATION

Genetic locus: PASD1 (human) mapping to Xq28.

SOURCE

PASD1 (D-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of PASD1 of human origin.

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 or our catalog for detailed protocols and support products.

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-138504 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PASD1 (D-15) is recommended for detection of PASD1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immuno-fluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PASD1 siRNA (h): sc-90848, PASD1 shRNA Plasmid (h): sc-90848-SH and PASD1 shRNA (h) Lentiviral Particles: sc-90848-V.

Molecular Weight of PASD1: 87 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

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) 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.

RESEARCH USE

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com