SANTA CRUZ BIOTECHNOLOGY, INC.

SLA2 (h): 293T Lysate: sc-115917

BACKGROUND

SLA2 (Src-like-adapter 2), also known as C20orf156 or SLAP2, is a 261 amino acid protein that exists as 4 alternatively spliced isoforms which localize to either the cytoplasm or to the cell membrane and contain one SH2 domain and one SH3 domain. Expressed predominately in tissues of the immune system, including thymus, spleen and lymph nodes, SLA2 functions as an adaptor protein that negatively regulates T-cell receptor (TCR) signaling and may inhibit T-cell activation. SLA2 interacts with Zap-70 and is subject to posttranslational phosphorylation. The gene encoding SLA2 maps to human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

REFERENCES

1. Holland, S.J., et al. 2001. Functional cloning of Src-like adapter protein-2 (SLAP-2), a novel inhibitor of antigen receptor signaling. J. Exp. Med. 194: 1263-1276.
2. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 606577. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
3. Pandey, A., et al. 2002. A novel Src homology 2 domain-containing molecule, Src-like adapter protein-2 (SLAP-2), which negatively regulates T cell receptor signaling. J. Biol. Chem. 277: 19131-19138.
4. Loreto, M.P., et al. 2002. Functional cooperation between c-Cbl and Src-like adaptor protein 2 in the negative regulation of T-cell receptor signaling. Mol. Cell. Biol. 22: 4241-4255.
5. Loreto, M.P. and McGlade, C.J. 2003. Cloning and characterization of human Src-like adaptor protein 2 and a novel splice isoform, SLAP-2-v. Oncogene 22: 266-273.
6. Dragone, L.L., et al. 2006. Src-like adaptor protein (SLAP) regulates B cell receptor levels in a c-Cbl-dependent manner. Proc. Natl. Acad. Sci. USA 103: 18202-18207.
7. Pakuts, B., et al. 2007. The Src-like adaptor protein 2 regulates colony-stimulating factor-1 receptor signaling and down-regulation. J. Biol. Chem. 282: 17953-17963.

CHROMOSOMAL LOCATION

Genetic locus: SLA2 (human) mapping to 20q11.23.

PRODUCT

SLA2 (h): 293T Lysate represents a lysate of human SLA2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

SLA2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SLA2 antibodies. Recommended use: 10-20 µl per lane.

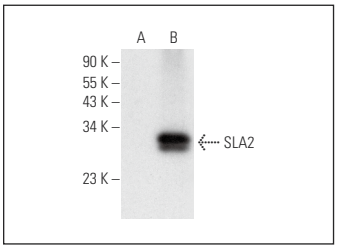
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SLA2 (E-2): sc-398928 is recommended as a positive control antibody for Western Blot analysis of enhanced human SLA2 expression in SLA2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

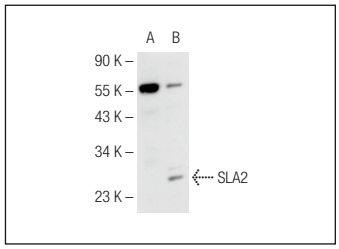
RECOMMENDED SUPPORT REAGENTS

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.

DATA



SLA2 (E-2): sc-398928. Western blot analysis of SLA2 expression in non-transfected: sc-117752 (**A**) and human SLA2 transfected: sc-115917 (**B**) 293T whole cell lysates.



SLA2 (53.50): sc-135799. Western blot analysis of SLA2 expression in non-transfected: sc-117752 (**A**) and human SLA2 transfected: sc-115917 (**B**) 293T whole cell lysates.

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.