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SANTA CRUZ BIOTECHNOLOGY, INC.

OAS2 (h): 293T Lysate: sc-116044

BACKGROUND

The 2'-5' oligoadenylate synthetase (OAS) family is comprised of four members: OAS1, OAS2, OAS3 and OASL. These proteins are induced by interferons and function to convert ATP into 2'-5' linked oligomers of adenosine in the presence of double-stranded RNA and magnesium ions. Copper, iron, and zinc ions strongly inhibit the OAS enzymatic activity, while manganese ions can replace magnesium ions as an activator. The OAS family plays a significant role in the inhibition of cellular protein synthesis as well as in viral infection resistance. OAS2 represents the "medium form" in the OAS family, and it maps to human chromosome 12q24.13. OAS2 contains two OAS1-homologous domains separated by a proline-rich putative linker region, and it is functionally active as a dimer. Abnormal expression patterns of OAS2 may be linked to infection flare in lupus patients.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OAS2 (human) mapping to 12q24.13.

PRODUCT

OAS2 (h): 293T Lysate represents a lysate of human OAS2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

OAS2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive OAS2 antibodies. Recommended use: 10-20 µl per lane.

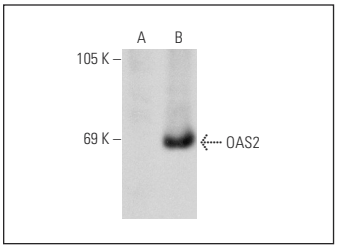
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

OAS2 (G-9): sc-271117 is recommended as a positive control antibody for Western Blot analysis of enhanced human OAS2 expression in OAS2 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



OAS2 (G-9): sc-271117. Western blot analysis of OAS2 expression in non-transfected: sc-117752 (**A**) and human OAS2 transfected: sc-116044 (**B**) 293T whole cell lysates.

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.

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.