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SANTA CRUZ BIOTECHNOLOGY, INC.

Psoriasin (h2): 293T Lysate: sc-159706

BACKGROUND

Psoriasin, also known as PSOR1 or S-100A7, is a 101 amino acid protein that belongs to the S-100 family of calcium binding proteins and is secreted via a non-classical secretory pathway into the cytoplasm. Expressed in fetal ear, tongue and skin, Psoriasin is thought to function in the regulation of many cellular processes, including the cell cycle, cell progression and cellular differentiation. Psoriasin contains two EF-hand domains and is highly upregulated in psoriatic epidermis, as well as in bladder squamous cell carcinoma and breast cancer tissue, suggesting a possible role in carcinogenesis. The gene encoding Psoriasin and the related S100A15 gene are thought to have diverged from one mouse gene, designated S100A15. In humans, the S100A15 gene encodes a calcium binding protein, also known as S-100A7A, that shares 95% sequence identity with Psoriasin.

REFERENCES

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2. Ruse, M., et al. 2003. S-100A7 (Psoriasin) interacts with epidermal fatty acid binding protein and localizes in focal adhesion-like structures in cultured keratinocytes. J. Invest. Dermatol. 121: 132-141.
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4. Jiang, W.G., et al. 2004. Psoriasin is aberrantly expressed in human breast cancer and is related to clinical outcomes. Int. J. Oncol. 25: 81-85.
5. Martinsson, H., et al. 2005. Expression patterns of S-100A7 (Psoriasin) and S-100A9 (Calgranulin B) in keratinocyte differentiation. Exp. Dermatol. 14: 161-168.
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7. Porre, S., et al. 2005. Psoriasin, a calcium-binding protein with chemotactic properties is present in the third trimester amniotic fluid. Mol. Hum. Reprod. 11: 87-92.
8. Eckert, R.L., et al. 2006. S-100A7 (Psoriasin): a story of mice and men. J. Invest. Dermatol. 126: 1442-1444.

CHROMOSOMAL LOCATION

Genetic locus: S100A7 (human) mapping to 1q21.3.

PRODUCT

Psoriasin (h2): 293T Lysate represents a lysate of human Psoriasin 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.

RESEARCH USE

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

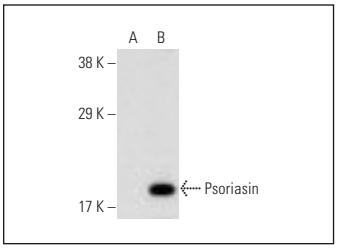
APPLICATIONS

Psoriasin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Psoriasin 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.

Psoriasin (47C1068): sc-52948 is recommended as a positive control antibody for Western Blot analysis of enhanced human Psoriasin expression in Psoriasin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Psoriasin (47C1068): sc-52948. Western blot analysis of Psoriasin expression in non-transfected: sc-117752 (**A**) and human Psoriasin transfected: sc-159706 (**B**) 293T whole cell lysates.

PROTOCOLS

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