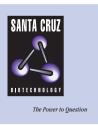
SANTA CRUZ BIOTECHNOLOGY, INC.

SEEK1 (R-16): sc-66267



BACKGROUND

Psoriasis is a chronic inflammatory dermatosis that is characterized by red, scaly skin patches found on the knees, elbows and scalp. Affecting approximately 2% of the population, psoriasis is caused by lesions which are the result of infiltration of inflammatory cells into the dermis and epidermis, as well as abnormal keratinocyte proliferation. Several protein-coding genes, most of which lie on different chromosomes, are implicated in the development of psoriasis. SEEK1, also known as PSORS1C1 (psoriasis susceptibility 1 candidate 1), is a 152 amino acid protein that is expressed in skin, heart, placenta, liver, pancreas and skeletal muscle and is implicated in psoriasis. Like PSORS1 (psoriasis susceptibility 1, also known as HLA-B/C), the gene encoding SEEK1 is located in a region on chromosome 6 corresponding to major histocompatibility complex (MHC) genes, suggesting a possible role in the immune system. Two isoforms of SEEK1 exist: one that includes the fulllength (152 amino acid) isoform spanning exons 1-6, and the other that is 100 amino acids in length and is an alternate splice-isoform consisting of exons 1 and 6.

REFERENCES

- Holm, S.J., Carlén, L.M., Mallbris, L., Ståhle-Bäckdahl, M. and O'Brien, K.P. 2003. Polymorphisms in the SEEK1 and SPR1 genes on 6p21.3 associate with psoriasis in the Swedish population. Exp. Dermatol. 12: 435-444.
- Peddle, L., Zipperlen, K., Melay, B., Hefferton, D. and Rahman, P. 2004. Association of SEEK1 polymorphisms in Crohn's disease. Hum. Immunol. 65: 706-709.
- Rahman, P., Butt, C., Siannis, F., Farewell, V.T., Peddle, L., Pellett, F.J., Schentag, C. and Gladman, D.D. 2005. Association of SEEK1 and psoriatic arthritis in two distinct Canadian populations. Ann. Rheum. Dis. 64: 1370-1372.
- Chang, Y.T., Liu, H.N., Shiao, Y.M., Lin, M.W., Lee, D.D., Liu, M.T., Wang, W.J., Wu, S., Lai, C.Y. and Tsai, S.F. 2005. A study of PSORS1C1 gene polymorphisms in Chinese patients with psoriasis. Br. J. Dermatol. 153: 90-96.
- Nair, R.P., Stuart, P.E., Nistor, I., Hiremagalore, R., Chia, N.V., Jenisch, S., Weichenthal, M., Abecasis, G.R., Lim, H.W., Christophers, E., Voorhees, J.J. and Elder, J.T. 2006. Sequence and haplotype analysis supports HLA-C as the psoriasis susceptibility 1 gene. Am. J. Hum. Genet. 78: 827-851.
- 6. Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 177900. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

CHROMOSOMAL LOCATION

Genetic locus: PSORS1C1 (human) mapping to 6p21.3.

SOURCE

SEEK1 (R-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SEEK1 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-66267 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SEEK1 (R-16) is recommended for detection of SEEK1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 SEEK1 siRNA (h): sc-62986.

Molecular Weight of SEEK1 isoform 1: 17 kDa.

Molecular Weight of SEEK1 isoform 2: 10 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **D0 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.