

HCR (L-16): sc-66228

BACKGROUND

HCR (coiled-coil α -helical rod protein 1, putative gene 8 protein) is a 782 amino acid protein that is encoded by human gene CCHCR1. It is believed to be a regulator of keratinocyte proliferation or differentiation. HCR is a nuclear protein abundantly expressed in heart, liver, skeletal muscle, kidney and pancreas, and to a lesser extent in lung and placenta. HCR is overexpressed in keratinocytes of psoriatic lesions. HCR is associated with susceptibility to psoriasis, a chronic inflammatory dermatosis that affects approximately 2% of the population. Psoriasis is a multifactorial disease characterized by red, scaly skin lesions that are usually found on the scalp, elbows and knees, and may be associated with severe arthritis. The lesions are caused by hyperproliferative keratinocytes and infiltration of inflammatory cells into the dermis and epidermis. The usual age of onset of psoriasis is between 15 and 30, although it can present at any age. Association of HCR with psoriasis seem to be due to linkage disequilibrium with CW*0602, however, HCR is unlikely to be directly involved in psoriasis development.

REFERENCES

1. Asumalahti, K., et al. 2000. A candidate gene for psoriasis near HLA-C, HCR (Pg8), is highly polymorphic with a disease-associated susceptibility allele. *Hum. Mol. Genet.* 9: 1533-1542.
2. O'Brien, K.P., et al. 2001. The HCR gene on 6p21 is unlikely to be a psoriasis susceptibility gene. *J. Invest. Dermatol.* 116: 750-754.
3. Asumalahti, K., et al. 2002. Coding haplotype analysis supports HCR as the putative susceptibility gene for psoriasis at the MHC PSORS1 locus. *Hum. Mol. Genet.* 11: 589-597.
4. Suomela, S., et al. 2003. HCR, a candidate gene for psoriasis, is expressed differently in psoriasis and other hyperproliferative skin disorders and is downregulated by interferon- γ in keratinocytes. *J. Invest. Dermatol.* 121: 1360-1364.

CHROMOSOMAL LOCATION

Genetic locus: CCHCR1 (human) mapping to 6p21.33; Cchcr1 (mouse) mapping to 17 B1.

SOURCE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-66228 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

HCR (L-16) is recommended for detection of HCR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 HCR siRNA (h): sc-62447, HCR siRNA (m): sc-62448, HCR shRNA Plasmid (h): sc-62447-SH, HCR shRNA Plasmid (m): sc-62448-SH, HCR shRNA (h) Lentiviral Particles: sc-62447-V and HCR shRNA (m) Lentiviral Particles: sc-62448-V.

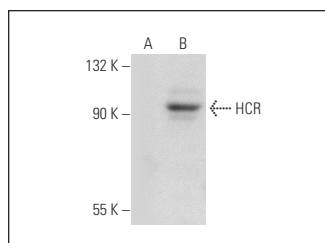
Molecular Weight of HCR isoforms 1/2: 86/99 kDa.

Positive Controls: HCR (m): 293T Lysate: sc-120724.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



HCR (L-16): sc-66228. Western blot analysis of HCR expression in non-transfected: sc-117752 (A) and mouse HCR transfected: sc-120724 (B) 293T whole cell lysates.

RESEARCH USE

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

MONOS
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Try **HCR (E-4): sc-365889**, our highly recommended monoclonal alternative to HCR (L-16).