

# HKR1 (S-20): sc-138954

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. HKR1, also known as Krüppel-related zinc finger protein 1 or zinc finger protein 875, is a 659 amino acid nuclear protein that is thought to play a role in transcriptional regulation. Existing as two alternatively spliced isoforms, HKR1 is a member of the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family and contains thirteen C<sub>2</sub>H<sub>2</sub>-type zinc fingers and one KRAB domain. The gene encoding HKR1 maps to human chromosome 19q13.12.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: HKR1 (human) mapping to 19q13.12.

## SOURCE

HKR1 (S-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of HKR1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138954 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

HKR1 (S-20) is recommended for detection of HKR1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HKR1 siRNA (h): sc-97871, HKR1 shRNA Plasmid (h): sc-97871-SH and HKR1 shRNA (h) Lentiviral Particles: sc-97871-V.

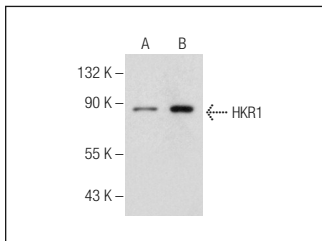
Molecular Weight of HKR1 isoforms: 75/73 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HeLa nuclear extract: sc-2120 or HKR1 (h): 293T Lysate: sc-116520.

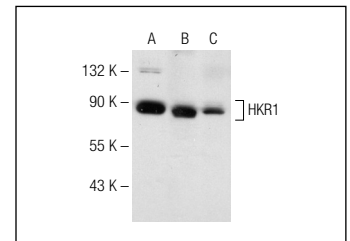
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



HKR1 (S-20): sc-138954. Western blot analysis of HKR1 expression in non-transfected: sc-117752 (A) and human HKR1 transfected: sc-116520 (B) 293T whole cell lysates.



HKR1 (S-20): sc-138954. Western blot analysis of HKR1 expression in 293T (A) and HeLa (B) whole cell lysates and HeLa nuclear extract (C).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. 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](http://www.scbt.com) or our catalog for detailed protocols and support products.