

Keratin 32 (C-13): sc-164726

BACKGROUND

The Keratin multigene family is made of "soft" epithelial cytokeratins and "hard" hair Keratins. While the epithelial cytokeratins are involved in the layering and formation of epithelia, the hair Keratins are responsible for creating nails and hair. There are two types of Keratins: the acidic class I Keratin proteins and the basic/neutral class II Keratin proteins. Keratin 32 (Krt32), also known as Keratin, type I cuticular Ha2, Hka2, Krt1-2 or Krtha2, is a 406 amino acid protein belonging to the intermediate filament family. As a type I hair Keratin, Keratin 32 is an acidic protein which heterodimerizes with type II keratins to form hair and nails. Keratin 32 is expressed in the cuticle of the hair shaft and is encoded by a gene located on human chromosome 17q21.2 and mouse chromosome 11 D.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KRT32 (human) mapping to 17q21.2.

SOURCE

Keratin 32 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Keratin 32 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-164726 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Keratin 32 (C-13) is recommended for detection of Keratin 32 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); non cross-reactive with other Keratin family members.

Suitable for use as control antibody for Keratin 32 siRNA (h): sc-93729, Keratin 32 shRNA Plasmid (h): sc-93729-SH and Keratin 32 shRNA (h) Lentiviral Particles: sc-93729-V.

Molecular Weight of Keratin 32: 46 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) 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.

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 or our catalog for detailed protocols and support products.