

Keratin 80 (D-15): sc-168310

BACKGROUND

The Keratin multigene family is made of the "soft" epithelial cytokeratins and the "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 hair Keratins: the acidic type I hair Keratin proteins and the basic/neutral type II hair Keratin proteins. Keratin 80, also known as KRT80 or KB80, is a 452 amino acid protein that is weakly expressed in tongue, but is not expressed skin or in any other tissues. Belonging to the intermediate filament family, Keratin 80 exists as a heterotetramer of two type I and two type II keratins. Keratin 80 is suggested to be involved in cell differentiation. Keratin 80 exists as three alternatively spliced isoforms and is encoded by a gene located on human chromosome 12q13.13.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KRT80 (human) mapping to 12q13.13; Krt80 (mouse) mapping to 15 F2.

SOURCE

Keratin 80 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Keratin 80 of human origin.

RESEARCH USE

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

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-168310 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Keratin 80 (D-15) is recommended for detection of Keratin 80 of mouse, rat and 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.

Keratin 80 (D-15) is also recommended for detection of Keratin 80 in additional species, including equine and canine.

Suitable for use as control antibody for Keratin 80 siRNA (h): sc-96163, Keratin 80 siRNA (m): sc-146428, Keratin 80 shRNA Plasmid (h): sc-96163-SH, Keratin 80 shRNA Plasmid (m): sc-146428-SH, Keratin 80 shRNA (h) Lentiviral Particles: sc-96163-V and Keratin 80 shRNA (m) Lentiviral Particles: sc-146428-V.

Molecular Weight of Keratin 80: 51 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.