Keratin 25 (T-13): sc-136723



The Power to Question

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 25, also known as KRT25A or KRT25, is a 450 amino acid cytoplasmic protein belonging to the intermediate filament family. Essential for the proper assembly of type I and type II keratin protein complexes, Keratin 25 is strongly expressed in skin and scalp. Keratin 25 exists as a heterotetramer of two type I and two type II keratins and interacts with Cytokeratin 6. Keratin 25 is required for proper formation of keratin intermediate filaments in the inner root sheath (irs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KRT25 (human) mapping to 17q21.2.

SOURCE

Keratin 25 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Keratin 25 of human origin.

STORAGE

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

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-136723 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Keratin 25 (T-13) is recommended for detection of Keratin 25 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 25 siRNA (h): sc-93610, Keratin 25 shRNA Plasmid (h): sc-93610-SH and Keratin 25 shRNA (h) Lentiviral Particles: sc-93610-V.

Molecular Weight (predicted) of Keratin 25: 49 kDa.

Molecular Weight (observed) of Keratin 25: 37 kDa.

Positive Controls: A-375 cell lysate: sc-3811, HeLa whole cell lysate: sc-2200 or CCD-1064Sk cell lysate: sc-2263.

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.

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.



Try **Keratin 25 (B-2): sc-398320**, our highly recommended monoclonal alternative to Keratin 25 (T-13).

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com