

# Keratin 26 (G-16): sc-247244

## BACKGROUND

Keratin 26, also known as Keratin type I cytoskeletal 26, KRT26, Cytokeratin-26, Keratin-25B or KRT25B, is a 468 amino acid protein that belongs to the intermediate filament family and exists as a heterotetramer of 2 type I and 2 type II keratins. While it is strongly expressed in skin and scalp, Keratin 26 is weakly expressed in thymus and tongue. In the hair follicle, expression of Keratin 26 is restricted to the mid- to upper inner root sheath cuticle, being present slightly above the apex of the dermal papilla. The gene that encodes Keratin 26 maps to human chromosome 17q21.2. Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: KRT26 (human) mapping to 17q21.2.

## SOURCE

Keratin 26 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Keratin 26 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247244 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Keratin 26 (G-16) is recommended for detection of Keratin 26 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.

Keratin 26 (G-16) is also recommended for detection of Keratin 26 in additional species, including porcine.

Suitable for use as control antibody for Keratin 26 siRNA (h): sc-93744, Keratin 26 shRNA Plasmid (h): sc-93744-SH and Keratin 26 shRNA (h) Lentiviral Particles: sc-93744-V.

Molecular Weight of Keratin 26: 52 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.

## 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.