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KRT74 Rabbit pAb

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Catalog # AP56427

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q7RTS7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57865
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KRT74
Epitope Specificity	401-500/529
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the intermediate filament family.
SUBUNIT	Heterotetramer of two type I and two type II keratins.
DISEASE	Defects in KRT74 are a cause of woolly hair autosomal dominant (ADWH) [MIM:194300]. A hair shaft disorder characterized by fine and tightly curled hair. Compared to normal curly hair that is observed in some populations, woolly hair grows slowly and stops growing after a few inches. Under light microscopy, woolly hair shows some structural anomalies, including trichorrexis nodosa and tapered ends.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. This protein belongs to a family of keratins that are specifically expressed in the inner root sheath of hair follicles.[provided by RefSeq, Jun 2009]

Additional Information

Gene ID	121391
Other Names	Keratin, type II cytoskeletal 74, Cytokeratin-74, CK-74, Keratin-5c, K5C, Keratin-74, K74, Type II inner root sheath-specific keratin-K6irs4, Type-II keratin Kb37, KRT74, K6IRS4, KB37, KRT5C, KRT6IRS4
Target/Specificity	Highly expressed in hair follicles from scalp. In hair, it is specifically present in the inner root sheath (IRS) of the hair follicle. Present in the IRS Huxley layer, but not in Henle layer or cuticle of the IRS. In the IRS Huxley layer, it is expressed in specialized Huxley cells, termed 'Fluegelzellen, along the area of differentiated Henle cells (at protein level).

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

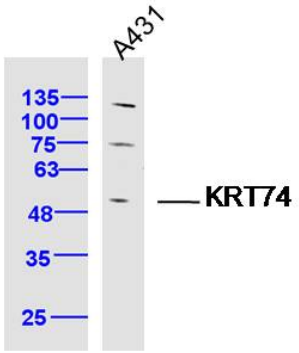
Protein Information

Name	KRT74
Synonyms	K6IRS4, KB37, KRT5C, KRT6IRS4
Function	Has a role in hair formation. Specific component of keratin intermediate filaments in the inner root sheath (IRS) of the hair follicle (Probable).
Tissue Location	Highly expressed in hair follicles from scalp. In hair, it is specifically present in the inner root sheath (IRS) of the hair follicle. Present in the IRS Huxley layer, but not in Henle layer or cuticle of the IRS. In the IRS Huxley layer, it is expressed in specialized Huxley cells, termed 'Fluegelzellen, along the area of differentiated Henle cells (at protein level)

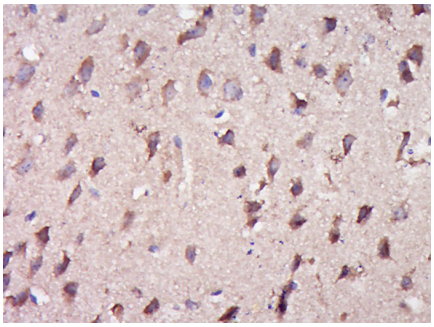
Background

Keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into epithelial keratins and hair keratins. This protein belongs to a family of keratins that are specifically expressed in the inner root sheath of hair follicles.[provided by RefSeq, Jun 2009]

Images



Sample: A431 Cell (Human) Lysate at 40 ug
Primary: Anti-KRT74 (AP56427) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KRT74) Polyclonal Antibody, Unconjugated (AP56427) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.