

KRT82 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5049c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NSB4
Other Accession	Q99M74
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26015
Calculated MW	56653
Antigen Region	312-341

Additional Information

Gene ID	3888
Other Names	Keratin, type II cuticular Hb2, Keratin-82, K82, Type II hair keratin Hb2, Type-II keratin Kb22, KRT82, KRTHB2
Target/Specificity	This KRT82 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 312-341 amino acids from the Central region of human KRT82.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KRT82 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KRT82 (HGNC:6459)
Synonyms	KRTHB2

Function	Structural component of intermediate filaments in the hair follicle. As a type II hair keratin, forms obligate heterodimers with type I hair keratins that assemble into keratin intermediate filaments. Expressed specifically in cuticle-forming cells of the hair shaft during the anagen phase, where it contributes to the formation and structural integrity of the hair cuticle.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in the hair follicle, specifically in hair shaft cuticle during the anagen phase of the hair cycle

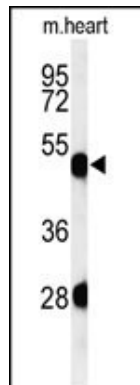
Background

KRT82 is a member of the keratin gene family. As a type II hair keratin, it is a basic protein which heterodimerizes with type I keratins to form hair and nails. The type II hair keratins are clustered in a region of chromosome 12q13 and are grouped into two distinct subfamilies based on structure similarity. One subfamily, consisting of KRTHB1, KRTHB3, and KRTHB6, is highly related. The other less-related subfamily includes KRTHB2, KRTHB4, and KRTHB5. All hair keratins are expressed in the hair follicle; this keratin appears to be a hair cuticle-specific keratin.

References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) Schweizer, J., et al. J. Cell Biol. 174(2):169-174(2006) Rogers, M.A., et al. J. Invest. Dermatol. 124(3):536-544(2005)

Images



Western blot analysis of KRT82 Antibody (Center) (Cat. #AP5049c) in mouse heart tissue lysates (35ug/lane). KRT82 (arrow) was detected using the purified Pab.



KRT82 Antibody (Center) (Cat. #AP5049c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the KRT82 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.