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KRTAP1-3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12654c

Product Information

Application	WB, FC, E
Primary Accession	Q8IUG1
Other Accession	Q9BYS1, Q07627, NP_112228.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29851
Calculated MW	17141
Antigen Region	1-3

Additional Information

Gene ID	81850
Other Names	Keratin-associated protein 1-3, Keratin-associated protein 18, Keratin-associated protein 19, KRTAP1-3
Target/Specificity	This KRTAP1-3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-117 amino acids from the Central region of human KRTAP1-3.
Dilution	WB~~1:1000 FC~~1:10~50 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	KRTAP1-3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KRTAP1-3
Function	In the hair cortex, hair keratin intermediate filaments are embedded in an interfilamentous matrix, consisting of hair keratin- associated proteins (KRTAP), which are essential for the formation of a rigid and resistant hair

	shaft through their extensive disulfide bond cross-linking with abundant cysteine residues of hair keratins. The matrix proteins include the high-sulfur and high-glycine-tyrosine keratins.
Tissue Location	Expressed in the middle/upper portions of the hair cortex, in the region termed the keratogenous zone

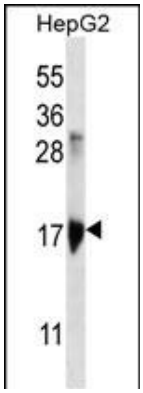
Background

This protein is a member of the keratin-associated protein (KAP) family. The KAP proteins form a matrix of keratin intermediate filaments which contribute to the structure of hair fibers. KAP family members appear to have unique, family-specific amino- and carboxyl-terminal regions and are subdivided into three multi-gene families according to amino acid composition: the high sulfur, the ultrahigh sulfur, and the high tyrosine/glycine KAPs. This protein is a member of the high sulfur KAP family and the gene is localized to a cluster of KAPs at 17q12-q21. [provided by RefSeq].

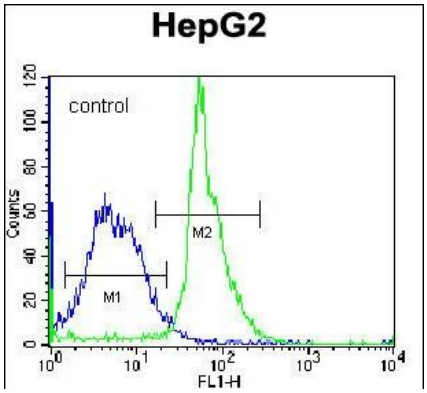
References

Shimomura, Y., et al. J. Biol. Chem. 277(47):45493-45501(2002)
Rogers, M.A., et al. J. Biol. Chem. 276(22):19440-19451(2001)
Zhumabaeva, B.D., et al. Mol. Biol. (Mosk.) 26(4):813-820(1992)

Images



KRTAP1-3 Antibody (Center) (Cat. #AP12654c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the KRTAP1-3 antibody detected the KRTAP1-3 protein (arrow).



KRTAP1-3 Antibody (Center) (Cat. #AP12654c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.