

Rabbit anti-Human K2C78 Polyclonal Antibody | anti-KRT78 antibody

K2C78 Antibody (Center)

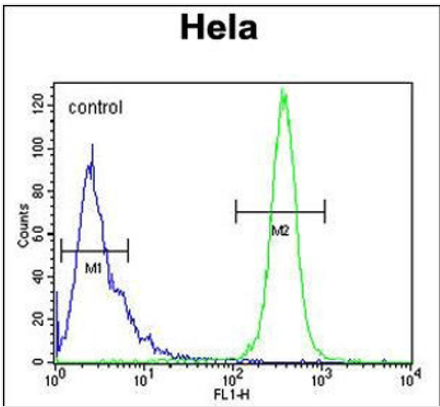
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287996	Rabbit	Human	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

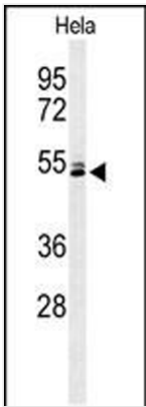
K2C78; Polyclonal Antibody; K2C78 Antibody (Center); Keratin; type II cytoskeletal 78; Cytokeratin-78; CK-78; Keratin-5b; Keratin-78; K78; Type-II keratin Kb40; KRT78; K5B; KB40; anti-KRT78 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This K2C78 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 176-203 amino acids from the Central region of human K2C78.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	176-203
Sequence Length	520
Applicable Applications for anti-KRT78 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Tissue Location	In non-keratinising esophageal and vaginal epithelium, strongly expressed in the basal and parabasal/lower suprabasal cell layers with considerably decreased expression in the mid/upper suprabasal layers (at protein level) (PubMed:26340985). A similar gradient from basal to lower suprabasal layers is seen in the partially keratinised dorsal tongue epithelium, in the scalp and in the plantar epidermis (at protein level) (PubMed:26340985). Extension of expression into the suprabasal compartments is distinctly more pronounced in non-keratinising epithelia than in keratinising epithelia and epidermis (at protein level) (PubMed:26340985). In scalp sections, present in the interfollicular epidermis and infundibulum including the entire outer root sheath of the hair follicles and also in the sebocytes (at protein level) (PubMed:26340985). In sweat glands, expressed in peripheral and luminal cells of the lower duct and in peripheral cells of the middle/upper duct with no expression observed in luminal cells (at protein level) (PubMed:26340985). In embryos at the 14th week of pregnancy, detected in basal and parabasal layers but is absent from the uppermost epidermal layer (at protein level) (PubMed:26340985). Expressed in tongue epithelium (PubMed:15737194) gene family and encodes a protein with an intermediate filament domain. Keratins are the major structural proteins in epithelial cells, forming a cytoplasmic network of 10 to 12 nm wide intermediate filaments and creating a scaffold that gives cells the ability to withstand mechanical and non-mechanical stresses. The genes of the type II keratin family are located as a gene cluster at 12p13.13. Four pseudogenes of this gene family have been identified.
Preparation and 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.



FCM/FACS (Flow Cytometry)
K2C78 Antibody (Center) (AAA287996) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of K2C78 Antibody (Center) (AAA287996) in Hela cell line lysates (35ug/lane). K2C78 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-KRT78 antibody	This gene is a member of the type II keratin gene family and encodes a protein with an intermediate filament domain. Keratins are the major structural proteins in epithelial cells, forming a cytoplasmic network of 10 to 12 nm wide intermediate filaments and creating a scaffold that gives cells the ability to withstand mechanical and non-mechanical stresses. The genes of the type II keratin family are located as a gene cluster at 12p13.13. Four pseudogenes of this gene family have been identified.
Product Categories/Family for anti-KRT78 antibody	Signal Transduction
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) Hesse, M., et al. Eur. J. Cell Biol. 83(1):19-26(2004) Coulombe, P.A., et al. Curr. Opin. Cell Biol. 14(1):110-122(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	89357932
NCBI GeneID	196374
NCBI Accession #	NP_775487.2
NCBI GenBank Nucleotide #	NM_173352.3
UniProt Accession #	Q8N1N4; Q5HYM7; Q7RTT2; A8K4D6
Molecular Weight	56866
NCBI Official Full Name	keratin, type II cytoskeletal 78 isoform 1
NCBI Official Synonym Full Names	keratin 78, type II
NCBI Official Symbol	KRT78
NCBI Official Synonym Symbols	K5B; K78; Kb40; CK-78
NCBI Protein Information	keratin, type II cytoskeletal 78
UniProt Protein Name	Keratin, type II cytoskeletal 78
UniProt Gene Name	KRT78

UniProt Synonym Gene Names	K5B; KB40; CK-78; K78
UniProt Entry Name	K2C78_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/k2c78-antibody-flow-cytometry-western-blot-elisa/287996>