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K2C78 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9856c

Specification

K2C78 Antibody (Center) - Product Information

Application	**FC, WB,E**
Primary Accession	Q8N1N4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**56866**
Antigen Region	**176-203**

K2C78 Antibody (Center) - Additional Information

Gene ID 196374

Other Names
Keratin, type II cytoskeletal 78, Cytokeratin-78, CK-78, Keratin-5b, Keratin-78, K78, Type-II keratin Kb40, KRT78, K5B, KB40

Target/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.

Dilution
FC~~1:10~50
WB~~1:1000
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
K2C78 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

K2C78 Antibody (Center) - Protein Information

Name KRT78

Synonyms K5B, KB40

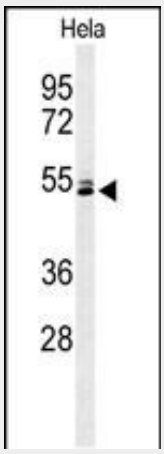
Tissue Location
In non-keratinising esophageal and vaginal epithelium, strongly expressed in the basal and parabasal/lower suprabasal cell layers with considerably decreased expression in the mid/upper suprabasal layers (at protein level) (PubMed:26340985). A similar gradient from basal to lower suprabasal 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)

K2C78 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

K2C78 Antibody (Center) - Images



Western blot analysis of K2C78 Antibody (Center) (Cat. #AP9856c) in Hela cell line lysates (35ug/lane). K2C78 (arrow) was detected using the purified Pab.

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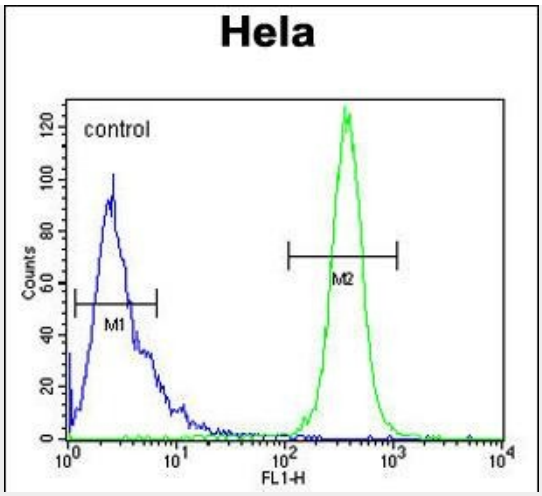

K2C78 Antibody (Center) (Cat. #AP9856c) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

K2C78 Antibody (Center) - Background

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.

K2C78 Antibody (Center) - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007)
Schweizer, J., et al. J. Cell Biol. 174(2):169-174(2006)
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