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Mouse Krt6a Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19689c

Product Information

Application	WB, E
Primary Accession	P50446
Other Accession	Q9Z331, NP_032502.3
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40714
Calculated MW	59335
Antigen Region	212-240

Additional Information

Gene ID	16687
Other Names	Keratin, type II cytoskeletal 6A, Cytokeratin-6A, CK-6A, Keratin-6-alpha, mK6-alpha, Keratin-6A, K6A, Krt6a, Ker2, Krt2-6, Krt2-6a, Krt6
Target/Specificity	This Mouse Krt6a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 212-240 amino acids from the Central region of mouse Krt6a.
Dilution	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	Mouse Krt6a Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Krt6a {ECO:0000312|MGI:MGI:1100845}
Function	Structural component of intermediate filaments in epithelial keratinocytes. Forms heteropolymers with the type I keratins KRT16 and KRT17, assembling

keratin intermediate filament networks that contribute to the structural integrity and stress resilience of stratified epithelia, particularly in epidermis, nail bed and oral mucosa. Rapidly induced in wound-edge keratinocytes and participates in the reorganization of the cytoskeleton during re-epithelialization (PubMed:10866680, PubMed:8636216). Negatively regulates collective keratinocyte migration by stabilizing myosin IIA/MYH2 and desmoplakin, thereby altering cell-cell and cell-matrix adhesion and reducing the speed and directionality of epithelial sheet movement during wound repair (PubMed:30389720). Also limits epithelial migration by inhibiting the activity of SRC during wound repair (PubMed:22529101). Required for normal plantar and nail unit integrity (By similarity).

Cellular Location Cytoplasm.

Tissue Location Predominates in the adult trunk skin, tongue, trachea/esophagus and eye. In adult skin, localization is restricted to hair follicles, where it is localized predominantly in the outer root sheath.

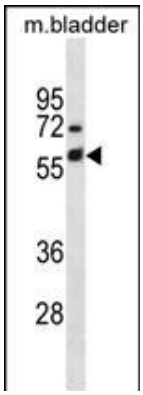
Background

Keratins 6 and 16 are expressed in keratinocytes, which are undergoing rapid turnover in the suprabasal region (also known as hyperproliferation related keratins). Keratin 6 is found in hair follicles, neck squamous cell carcinomas, suprabasal cells of a variety of internal stratified epithelia, in epidermis, in both normal and hyperproliferative situations. Epidermal injury results in activation of keratinocytes which express CK6 and CK16. CK6 is strongly expressed in about 75% of head and neck squamous cell carcinomas. Expression of CK6 is particularly associated with differentiation. There are at least six isoforms of human type II keratin 6 (K6), K6A being the most abundant representing about 77% of all forms found in epithelia.

References

Sehic, A., et al. Eur. J. Oral Sci. 117(2):93-104(2009)
Chen, J., et al. J. Invest. Dermatol. 128(2):270-279(2008)
Cui, C.Y., et al. Hum. Mol. Genet. 16(21):2583-2590(2007)
Gu, L.H., et al. J. Invest. Dermatol. 127(5):1061-1073(2007)
Kurek, D., et al. Development 134(2):261-272(2007)

Images



Mouse Krt6a Antibody (Center) (Cat. #AP19689c) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the Mouse Krt6a antibody detected the Mouse Krt6a protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.