

Mouse Anti-Cytokeratin K3, AE5

Product reference no:	IQ290
Quantity:	0.1 ml
Clone no:	AE5
Host/Isotype:	Mouse Ig
Immunogen:	Rabbit corneal epithelial keratins
Myeloma/fusion partners:	P3 x 63 Ag8 myeloma cells
Specificity:	The 64K basic keratin K3 (human, rabbit and bovine)
Purification:	Protein G purified
Format:	Purified antibody in PBS + 0.1% sodium azide
Applications:	Works well for immunoblotting and for immunohistochemical staining of paraffin sections, in human rabbit and bovine material
Dilutions:	Optimal antibody dilution should be determined by titration, however as guideline try at 1:1000-1:3000 for western blot
Technical notes:	AE5 recognises K3 which is a corneal epithelial specific differentiation marker. Used extensively by investigators to study corneal epithelial stem cells.
References:	<p>Schermer, A., Galvin, S., and Sun, T.-T. (1986). Differentiation-related expression of a major 64K corneal keratin in vivo and in culture suggests limbal location of corneal epithelial stem cells. <i>Journal of Cell Biology</i> 103, 49-62.</p> <p>Rodrigues, M., Ben, Z. A., Krachmer, J., Schermer, A., and Sun, T.-T. (1987). Suprabasal expression of a 64-kilodalton keratin (no. 3) in developing human corneal epithelium. <i>Differentiation</i> 34, 60-67.</p> <p>Chaloin, D. C., Sun, T.-T., and Dhouailly, D. (1990). Appearance of the keratin pair K3/K12 during embryonic and adult corneal epithelial differentiation in the chick and in the rabbit. <i>Cell Differentiation & Development</i> 32, 97-108.</p> <p>Chen, T.-T., Wu, R. L., Castro-Munozledo, F., and Sun, T.-T. (1997). Regulation of K3 keratin gene transcription by Sp1 and AP-2 in differentiating rabbit corneal epithelial cells. <i>Molecular Cell Biology</i> 17, 3056-3064.</p>

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Cooper, D., and Sun, T.-T. (1986). Monoclonal antibody analysis of bovine epithelial keratins. Specific pairs as defined by coexpression. *Journal of Biological Chemistry* 261, 4646-4654

Storage:

Store at +4°C for one month, or in small aliquots at -20°C for longer periods. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody

Health & Safety:

Products that contain sodium azide (a poisonous and hazardous substance) should be handled by trained staff only.