Product datasheet

anti-Keratin K9 mouse monoclonal, Ks9.70 + Ks9.216, supernatant

Short overview

Cat. No.	651104
Quantity	1 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1 and IgG3
Clone	Ks9.70 + Ks9.216
Immunogen	Synthetic peptides [(1) amino acids pos. 450-477 and (2) N-terminal amino acids nos. 4-28] of human keratin K9 (MW 62,129; formerly also designated cytokeratin 9)
Formulation	Contains 0.09% sodium azide
UniprotID	P35527 (Human)
Synomym	Keratin, type I cytoskeletal 9, Cytokeratin-9, CK-9, Keratin-9, K9, KRT9
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Hybridoma cell culture supernatant
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF, IHC, WB
Reactivity	Human
No reactivity	Mouse

Applications

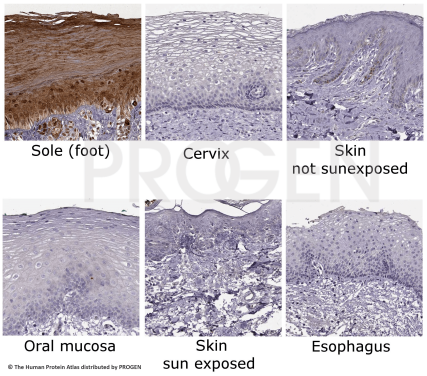
Immunocytochemistry (ICC)	1:10
Immunohistochemistry (IHC) - frozen	1:20
Immunohistochemistry (IHC) - paraffin	1:20 (protease treatment and/or microwave treatment recommended)
Western Blot (WB)	1:25-1:300

Background

The antibody reagent represents an excellent marker to study palmoplantar epidermal distribution and differentiation. Specifically reactive in the middle/upper suprabasal layers (stratum spinosum/ granulosum) of the epidermis of palm and sole. K9 can be detected in primary cultures of palmoplantar keratinocytes when they shift to differentiation-promoting conditions and grow stratified (upper cells). K9 has not been found in normal, i.e. non-pathogenic, non-ridged epidermis, beside some minor cells surrounding the acrosyringeal ducts. No labelling has been found in epithelial cells of other stratified epithelia such as oesophagus or complex epithelia (e.g. urothelium) or in ductal or simple epithelia. Negative tissues include: muscle, liver and duodenum.

The antibody cocktail is an excellent new tool to characterize primary cultures of keratinocytes/skin transplants for application in burn treatment.

Product images



Keratin K9 staining on human tissue (courtesy of The Human Protein Atlas, www.proteinatlas.org, Thul PJ et al, 2017. A subcellular map of the human proteome. Science)

References

Publication	Species	Application
Langbein, L. et al. Characterization of a Novel Human Type II Epithelial Keratin K1b, Specifically Expressed in Eccrine Sweat Glands. J. Invest. Dermatol. 125, 428â€“444 (2005).	human	IHC (frozen)