

## Product datasheet

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

#### Short overview

<b>Cat. No.</b>	651104
<b>Quantity</b>	1 ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1 and IgG3
<b>Clone</b>	Ks9.70 + Ks9.216
<b>Immunogen</b>	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)
<b>Formulation</b>	Contains 0.09% sodium azide
<b>UniprotID</b>	P35527 (Human)
<b>Synonym</b>	Keratin, type I cytoskeletal 9, Cytokeratin-9, CK-9, Keratin-9, K9, KRT9
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Hybridoma cell culture supernatant
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Human
<b>No reactivity</b>	Mouse

#### Applications

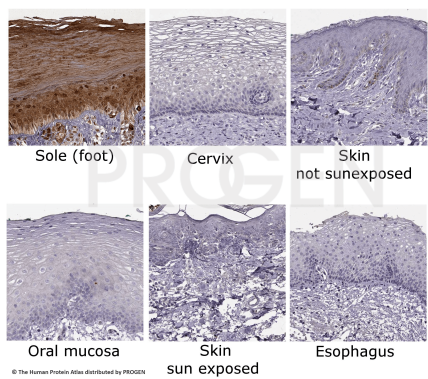
<b>Immunocytochemistry (ICC)</b>	1:10
<b>Immunohistochemistry (IHC) - frozen</b>	1:20
<b>Immunohistochemistry (IHC) - paraffin</b>	1:20 (protease treatment and/or microwave treatment recommended)
<b>Western Blot (WB)</b>	1:25-1:300

#### 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 acrosyringal 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](http://www.proteinatlas.org), Thul PJ et al, 2017. A subcellular map of the human proteome. Science)

References

Publication	Species	Application
<a href="#">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).</a>	human	IHC (frozen)