

Product datasheet

anti-Keratin K5/K8 (Pan Epithelial) mouse monoclonal, C22, lyophilized, purified

Short overview

Cat. No. 61031 **Quantity** 50 μg

Concentration 50 µg/ml after reconstitution with 1 ml dist. water

Product description

HostMouseAntibody TypeMonoclonalIsotypeIgG1

Clone Ks 5+8.22/C22

Immunogen Human keratin K8, purified from SDS PAGE gel

Formulation Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA

in PBS buffer, pH 7.4)

UniprotID Q5XQN5 (Bovine), Q7RTS7 (Human), Q922U2 (Mouse), P05786 (Bovine), P05787 (Human),

P11679 (Mouse)

Synomym Keratin, type II cytoskeletal 74, Cytokeratin-74, CK-74, Keratin-5c, K5C, Keratin-74, K74, Type II

inner root sheath-specific keratin-K6irs4, Type-II keratin Kb37, KRT74, K6IRS4, KB37, KRT5C, KRT6IRS4, Keratin, type II cytoskeletal 8, Cytokeratin-8, CK-8, Keratin-8, K8, Type-II keratin Kb8,

KRT8, CYK8

Conjugate Unconjugated

Purification Affinity chromatography

Storage before 2-8°C until indicated expiry date

reconstitution

Storage after Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles

reconstitution

Intended useResearch use onlyApplicationICC/IF, IHC, WB

Reactivity Bovine, Human, Mouse, Rat

Applications

Immunocytochemistry (ICC)Assay dependentImmunohistochemistry (IHC) - frozen1:10-1:100 (0.5-5 μg/ml)

Immunohistochemistry (IHC) - paraffin 1:10-1:100 (0.5-5 μg/ml, protease treatment and/or microwave

treatment recommended)

Western Blot (WB) 1:500 (0.1 μg/ml)

Background

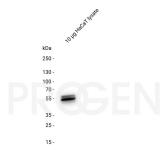
C22 represents an excellent marker for distinguishing carcinomas from all non-epithelial tumors. The antibody specifically reacts with keratins K5 and K8 present in nearly all epithelia.

Polypeptide reacting: Mr 52,500, Mr 58,000 keratins (type II keratins K5 and K8; formerly also designated cytokeratins 5 and 8) of human epithelial cells. Epitope has been mapped to aa 353-367 on alpha helical rod domain of Keratin K8 (Waseem et al., 2004).

Reactivity on cultured cell lines: MCF-7, RT 112, HT-29, HaCaT, Detroit 562, RPMI 2650, SSC-12, bovine BMGE+H, BMGE-H, MDBK.

Waseem A, Karsten U, Leigh IM, Purkis P, Waseem NH, Lane BE: Conformational changes in the rod domain of human keratin 8 following heterotypic association with keratin 18 and its implication for filament stability. Biochemistry 43, 1283-1295 (2004).

Product images



Western blot analysis of human HaCaT lysate with anti-Keratin K5/K8 antibody. Western blot analysis was performed on 10 μ g HuCaT lysate. Cells were lysed with RIPA buffer. The PVDF membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-Keratin K5/K8 mouse monoclonal, C22 (Cat. No. 690031) was diluted in blocking buffer (antibody concentration 0.1 μ g/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG goat polyclonal, HRP conjugate was also diluted in blocking buffer (antibody concentration 0.2 μ g/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using PierceTM ECL Western Blotting Substrate.



IHC of mouse tongue (courtesy of J.Heß, University Hospital Heidelberg)



IHC of rat tongue (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Frese, L. et al. Optimizing large-scale autologous human	Human	IHC-P-IF
keratinocyte sheets for major burnsâ€"Toward an animal-free		
production and a more accessible clinical application. Heal.		
Sci. Reports 5, 1–11 (2022).		
Obermayr, E. et al. Circulating tumor cells: potential markers	human	ICC-IF
of minimal residual disease in ovarian cancer? a study of the		
OVCAD consortium. Oncotarget. 8, 106415-106428 (2017).		
Heid, H. et al. Lipid droplets, perilipins and	human	ICC-IF
cytokeratinsunravelled liaisons in epithelium-derived cells.		
PLoS One 8, (2013).		