Product datasheet

anti-Keratin K5/K8 (Pan Epithelial) mouse monoclonal, C22, Biotin Conjugate

Short overview

Cat. No.	61531
Quantity	250 µl

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Ks 5+8.22/C22
Immunogen	Human keratin K8, purified from SDS PAGE gel
Formulation	Contains 0.09% sodium azide
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
Note	Centrifuge prior to opening
Conjugate	Biotin
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	ELISA, ICC/IF, IHC
Reactivity	Bovine, Human, Mouse, Rat

Applications

ELISA	Assay dependent
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:10-1:20
Immunohistochemistry (IHC) - paraffin	1:10-1:20 (protease treatment and/or microwave treatment recommended)

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

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References

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