Product datasheet

anti-Keratin K8/K18 mouse monoclonal, NCL-5D3, supernatant

Short overview

Cat. No.	10502
Quantity	1 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	NCL-5D3
Immunogen	Isolated from human breast cancer carcinoma cell line MCF-7
Formulation	Contains 0.1% sodium azide
UniprotID	P05787 (Human)
Synomym	Keratin, type II cytoskeletal 8, Cytokeratin-8, CK-8, Keratin-8, K8, Type-II keratin Kb8, KRT8, CYK8
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

Applications

Immunocytochemistry (ICC)	1:5-1:10
Immunohistochemistry (IHC) - frozen	1:5-1:10
Immunohistochemistry (IHC) - paraffin	1:5-1:10 (protease treatment and/or microwave treatment recommended)
Western Blot (WB)	Assay dependent

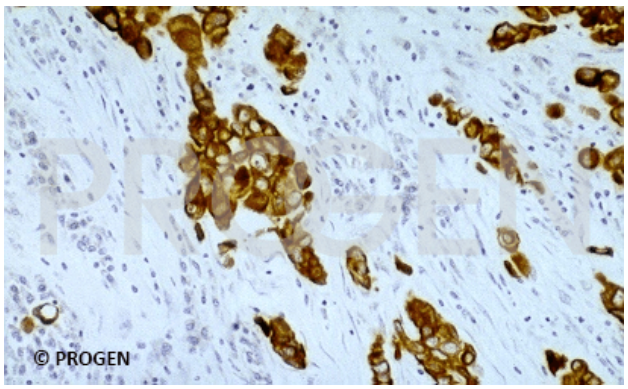
Background

The antibody recognizes all simple epithelia including glandular epithelia. It does not react with stratified squamous epithelium. Useful for the differentiation between carcinomas and lymphomas. In immunoblotting (Western) NCL 5D3 is directed against the the 52.2 kDa keratin K8 (originally reported also to 45 kDa keratin K18; formerly also designated cytokeratins according to the Moll-catalogue). Epitope has been mapped to aa 353-367 on alpha helical rod domain of keratin K8 (Waseem et al., 2004).

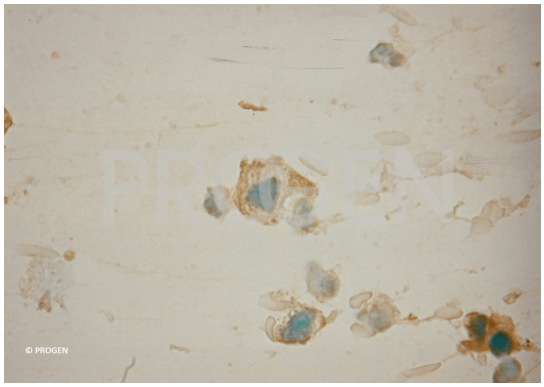
Positive control: glandular epithelium.

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).

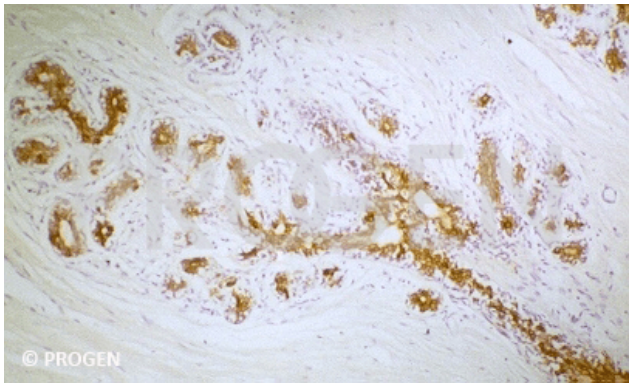
Product images



human Mamma Carcinoma (paraffin)



human Squamous Cell Carcinoma



human Mamma Carcinoma (paraffin)

References

Publication	Species	Application
Ooeda, K. et al. A two-dimensional multiwell cell culture method for the production of CYP3A4-expressing hepatocyte-like cells from HepaRG cells. Pharmacol. Res. Perspect. 8, 1â€“12 (2020).	human	ICC-IF
Angus, B. et al. NCL-5D3: a new monoclonal antibody recognizing low molecular weight cytokeratins effective for immunohistochemistry using fixed paraffin-embedded tissue. J. Pathol. 153, 377â€“84 (1987).	human	WB,IHC (frozen)