Product datasheet

anti-EP-CAM mouse monoclonal, HEA125, lyophilized, purified

Short overview

Cat. No.	61004
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	HEA125
Immunogen	HT-29 colon carcinoma cell line
Formulation	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
Synomym	Human Epithelium Antigen, HEA, 17-1A, EPG34, CD326, TACSTD1
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	Up to 3 months 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)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:10-1:50 (1-5 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:10-1:50 (1-5 µg/ml; protease treatment recommended)
Western Blot (WB)	1:200-1:3.000 (0.02-0.25 µg/ml)

Background

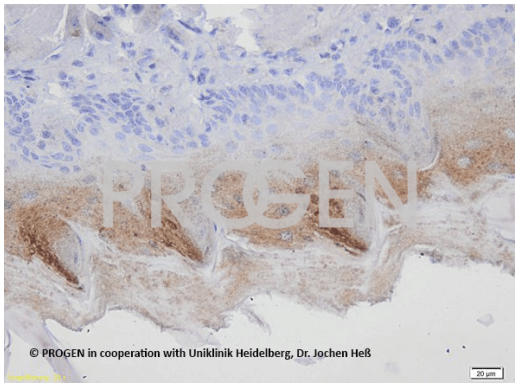
The Ep-CAM (HEA125) antibody recognizes the epithelial cell adhesion molecule Ep-CAM (also described as 17-1A antigen, EPG34, CD326, and TACSTD1). This antigen is widely expressed on cells of epithelial origin and tumors derived therefrom. HEA125 represents an excellent marker to discriminate epithelial from mesothelial structures. The antigen has been detected in all carcinoma types tested (18 different origins). A subset of squamous cell carcinoma is negative.

The antibody can be used as alternative to the anti-EpCAM antibody clone BerEp4.

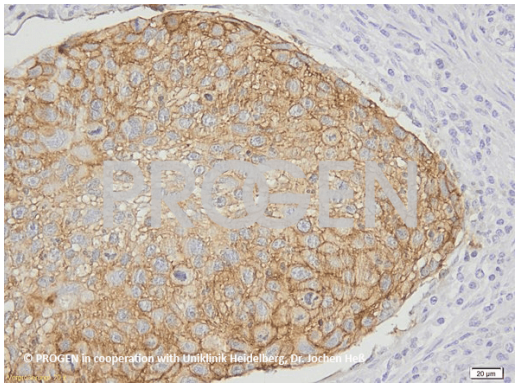
Polypeptide reacting: Mr 40,000 human epithelium-specific cell surface glycoprotein (Ep-CAM).

Reactivity on cultured cell lines: all carcinoma cell lines tested so far; particularly strong reaction with colon carcinoma cell lines.

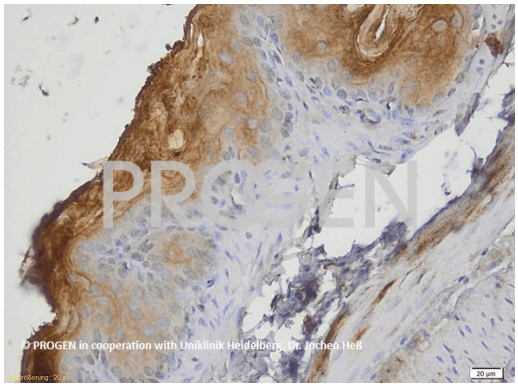
Product images



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



human head and neck squamous-cell carcinoma (HNSCC)(courtesy of J.Heß, University Hospital Heidelberg)



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

References

Publication	Species	Application
Wilkinson A. L. et al., The senescent secretome drives PLVAP expression in cultured human hepatic endothelial cells to promote monocyte transmigration., iScience, 26, 107966, (2023).	Human	MACS
Metzgeroth, G., Kuhn, C., Schultheis, B., Hehlmann, R. & Hastka, J. Diagnostic accuracy of cytology and immunocytology in carcinomatous effusions. Cytopathology 19, 205-211 (2008).	human	ICC
Momburg, F., Moldenhauer, G., HÃ¤mmerling, G. J. & MÃ¼ller, P. Immunohistochemical study of the expression of a Mr 34,000 human epithelium-specific surface glycoprotein in normal and malignant tissues. Cancer Res. 47, 2883-91 (1987).	human	IHC (frozen)
Joplin, R., Strain, A. J. & Neuberger, J. M. Immuno-isolation and culture of biliary epithelial cells from normal human liver. In Vitro Cell. Dev. Biol. 25, 1189-92 (1989).	human	IHC (frozen)
Domke, L and Franke, W. The cell-cell junctions of mammalian testes.., Cell Tissue Res, 375, 451-482, (2019)	pig	ICC-IF