Product datasheet

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

Short overview

Cat. No.	65004
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	HEA125
Immunogen	HT-29 colon carcinoma cell line
Formulation	PBS pH 7.4 with 0.5% BSA and 0.09% sodium azide
Synomym	Human Epithelium Antigen, HEA, 17-1A, EPG34, CD326, TACSTD1
Conjugate	Unconjugated
Purification	Affinity chromatography
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
No reactivity	Mouse

Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	1:250-1:2.000

Background

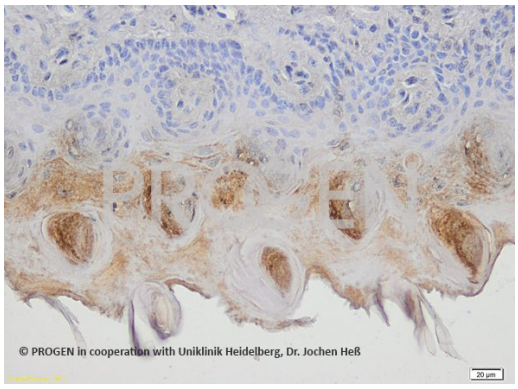
The Ep-CAM (HEA125) antibody recognizes the epithelial cell adhesion molecule Ep-CAM (also described as 17-1A antigen, EPG34, CD326, and TACSTD1). This antigen is widely expressed on cells of epithelial origin and tumors derived therefrom. HEA125 represents an excellent marker to discriminate epithelial 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.

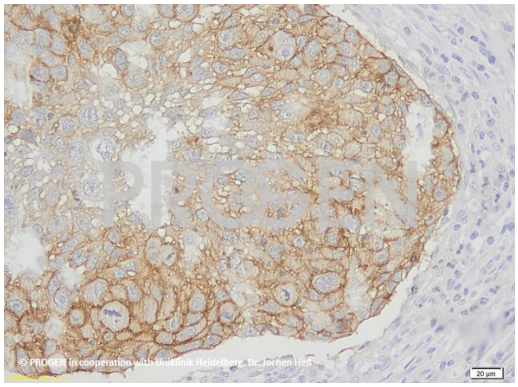
Polypeptide reacting: Mr 40,000 human epithelium-specific cell surface glycoprotein (Ep-CAM).

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

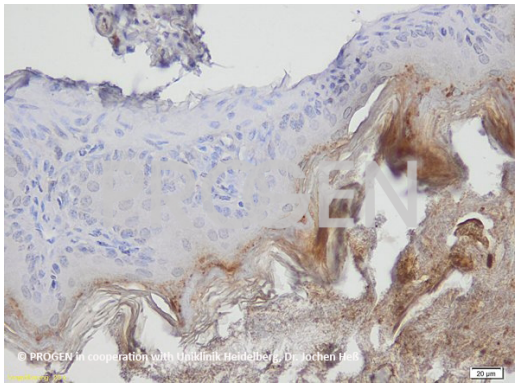
Product images



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



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



Mouse tongue (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
Domke, L and Franke, W. The cell-cell junctions of mammalian testes.., Cell Tissue Res, 375, 451-482, (2019)	pig	ICC-IF
FernÃ¡ndez, A. et al. Disruption of the beclin 1-BCL2 autophagy regulatory complex promotes longevity in mice. Nature. 558, 136-140 (2018)	mouse	WB
Patten, D. et al. SCARF-1 promotes adhesion of CD4+ T cells to human hepatic sinusoidal endothelium under conditions of shear stress. Sci.Rep. 7, 17600 (2017).	human	IHC-IF (frozen)
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