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Mouse anti EpCAM/CD326/EPG-2/SCLC-CD2 epithelial antigen

Catalogue number: **MUB0512P**

Clone	MOC-181
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.1mg
Host	Mouse
Species reactivity	Human
Application	Flow cytometry

Background

The epithelial cell adhesion molecule (EpCAM), also known as CD326, is a 40 kD glycoprotein that is expressed at the basolateral cell membrane of simple, pseudo-stratified and transitional epithelia of normal adult tissues. EpCAM is reported to function as a homotypic calcium-independent cell adhesion molecule but studies suggest that EpCAM is also involved in cellular processes such as cell signalling, migration, proliferation and differentiation. EpCAM is overexpressed in a wide range of human epithelial carcinomas including lung, colorectal, breast, prostate, head and neck, and hepatic carcinomas. The EpCAM molecule has, therefore, been widely used as a diagnostic marker for human carcinomas and has been considered as a potential target for immunotherapy. Since EpCAM is also present on exosomes, microvesicles abundantly secreted by tumor cells, antibodies to this cell surface antigen are widely used for the isolation and identification of these cancer derived exosomes. Apart from EpCAM's role in cancer syndromes, homozygous mutations in the EpCAM gene have been identified in patients suffering from congenital tufting enteropathy, a rare autosomal recessive form of intractable diarrhea of infancy. Finally, EpCAM expression may be causally related to maintaining stem cells, and therefore will be a valuable target for future avenues to generate human induced pluripotent stem cells.

Source

MOC-181 is a mouse monoclonal IgG2a antibody derived by fusion of mouse myeloma cells with spleen cells from a mouse immunized with an extract from a small cell lung carcinoma cell line.

Product

Each vial contains 100µg 1mg/ml purified monoclonal antibody in phosphate buffered saline (PBS) containing 0.09% sodium azide.

Distributors

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Applications

The MOC-181 antibody is suitable for the detection of human EpCAM by flow cytometry. Furthermore, MOC-181 has been shown to effectively induce tumor-specific myeloid cell activation in a mouse model. Optimal antibody dilutions for the different applications should be determined by titration.

Specificity

The antibody MOC-181 is directed against human EpCAM. The antibody has been reported to react with an epitope within the first EGF-like repeat in the extracellular region of EpCAM.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. De Leij L, Helrich W, Stein R, Mattes MJ. 1994. SCLC-cluster-2 antibodies detect the pancarcinoma/epithelial glycoprotein EGP-2. *Int J Cancer Suppl.*8:60-3.
2. Kroesen BJ, McLaughlin PM, Schuilenga-Hut PH, Jacobs SC, Molema G, Helfrich W, De Leij LF. 2002. Tumor-targeted immune complex formation: effects on myeloid cell activation and tumor-directed immune cell migration. *Int J Cancer.*98:857-63.
3. Schnell U, Cirulli V, Giepmans BN. 2013. EpCAM: structure and function in health and disease. *Biochim Biophys Acta.*1828:1989-2001

Caution

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