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Rat anti EpCAM / CD326

Catalogue number: **MUB0509P**

Clone	G8.8
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.1 mg
Host	Rat
Species reactivity	Mouse
Application	Flow cytometry Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunoprecipitation

Distributors

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Background

Ep-CAM is a 40 kD glycoprotein and can be detected at the basolateral membrane of the majority of epithelial tissues, where it is intricately linked with the cadherin-Catenin complex and hence the fundamental WNT pathway responsible for intracellular signalling and polarity. This antigen functions as a homotypic calcium-independent cell adhesion molecule. Of particular interest, Ep-CAM appears to be overexpressed by the majority of Human epithelial carcinomas, including colorectal, breast, prostate, head and neck, and hepatic carcinomas. The antigen is being used as a target for immunotherapy of Human carcinomas. Formation of Ep-CAM-mediated adhesions has a negative regulatory effect on adhesions mediated by classic cadherins, which may have strong effects on the differentiation and growth of epithelial cells. Ep-CAM overexpression was suggested to be associated with enhanced epithelial proliferation.

Source

G8.8 is a rat monoclonal IgG2a antibody derived by fusion of X63-Ag8.653 mouse myeloma cells with spleen lymphocytes from rats repeatedly immunized with glycoconjugates from BALB/c Mouse derived medullary thymic epithelial cells.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

G8.8 is suitable for immunoblotting, immunoprecipitation,

immunocytochemistry and immuno-histochemistry on frozen tissues and flow cytometry. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

Specificity

The G8.8 antibody reacts with CD326/Ep-CAM (Epithelial Cell Adhesion Molecule), also known as gp-40 in the Mouse. Ep-CAM is a 40-42-kDa cell-surface glycoprotein expressed on thymic epithelial cells, thymic dendritic cells, immature thymocytes, a small subset of peripheral T lymphocytes, intestinal epithelium, kidney-collecting tubule epithelium, Keratinocytes, Langerhans cells, as well as lymph node and splenic dendritic cells.

Storage

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

References

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3. Borkowski, T., Nelson, A., Farr, A. and Udey, M. (1996). Expression of gp40, the murine homologue of Human epithelial cell adhesion molecule (Ep-Cam), by murine dendritic cells. *Eur. J. Immunol.* 26, 110-14.
4. Nelson, A., Dunn, R., Peach, R., Aruffo, A. and Farr, A. (1996). The murine homolog of Human Ep-CAM, a homotypic adhesion molecule, is expressed by thymocytes and thymic epithelial cells. *Eur. J. Immunol.* 26, 401-408.
5. Went, P., Vasei, M., Bubendorf, L., Terracciano, L., Tornillo, L., Riede, U., Kononen, J., Simon, R., Sauter, G. And Baeuerle, P.A. (2006). Frequent high-level expression of the immunotherapeutic target Ep-CAM in colon, stomach, prostate and lung cancers bladder. *British Journal of Cancer* 94, 128-135.
6. Maaser, K. and Borlak, J. (2008). A genom-wide expression analysis identifies a network of EpCAM-induced cell cycle regulators. *British Journal of Cancer* 99, 1635-43

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.

