

Product datasheet for AM33039PU-N

Epcam Rat Monoclonal Antibody [Clone ID: G8.8]

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com

OriGene Technologies, Inc.

https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product data:

Product Type: Primary Antibodies

Clone Name: G8.8

Applications: FC, IF, IHC, IP, WB

Recommended Dilution: Western blotting: 1/100-1/1000.

Flow Cytometry: 1/25–1/200. Immunocytochemistry. Immunoprecipitation.

Immunohistochemistry on Frozen Sections: 1/25–1/200 with avidin-biotinylated

horseradish peroxidase complex (ABC) as detection reagent.

Reactivity: Mouse

Host: Rat

Isotype: IgG2a

Clonality: Monoclonal

Immunogen: This antibody is 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.

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 dendrititc cells.

Formulation: PBS

State: Purified

State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide

Concentration: lot specific

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.





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Stability: Shelf life: one year from despatch.

Gene Name: epithelial cell adhesion molecule

Database Link: Entrez Gene 17075 Mouse

Q99JW5

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.

Synonyms: Ep-CAM, Epithelial cell adhesion molecule, GA733-2, EGP314, KSA, TROP1, Trop-1, M1S2,

M4S1, MIC18