Anti-Human CD109 (641) Rabbit IgG Affinity Purify

Volume: 100 μg

**Introduction:** CD109 is a glycosyl-phosphatidylinositol (GPI) - anchored glycoprotein about 180 - 190 kDa. It is shown that CD109 is expressed in vascular endothelial cells, some epithelial cells, activated T-cells and platelets, and subset of CD34+ megakaryocytic leukemia cells. The CD109 molecules are strongly expressed in KG1a cells, while CD34+CD109+ cells in fetal bone marrow include almost all myelocytic, erythroblastic and megakaryocytic precursor cells. For this reason, CD109 is considered to be a marker of megakaryocytic hematopoiesis in early stage. And CD109 is considered different from existing activation marker of leukocyte and platelet because of its structure and serological features.

By reports of Takahashi et al. (ref. 3-5), CD109 is significantly over expressed in squamous cell carcinoma such as lung carcinoma, esophageal carcinoma and uterine cervical carcinoma. Thus, it is attracting attention in study of squamous cell carcinoma. Additionally, a recent study suggests that CD109 is involved in the regulation of transforming growth factor (TGF)-β signaling in some cancer cells and keratinocytes (ref. 2).

**Antigen:** Synthetic peptide of a part of Human CD109 (a.a. 461-478)

**Purification:** Purified with antigen peptide

**Form:** Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃

**How to use:** 1.0 mL deionized water will be added to the product (the conc. comes up 100 μg /mL)

**Stability:**

- Lyophilized product, 5 years at 2 – 8 °C
- Solution, 2 years at –20 °C

**Application:** This antibody can be stained in formalin fixed paraffin embedded tissues after microwave treatment. The optimal dilution is 1 - 5 μg/mL, however, the dilution rate should be optimized by each laboratories.

- This antibody can be used for western blotting in concentration of 1 - 5 μg /mL.

**Reference:**


For research use only, not for use in diagnostic procedures.

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