

Code No. 10381

# Anti-Human

## CD109 (11H3) Mouse IgG MoAb

Volume : 100 µg

#### Introduction

CD109 is a glycosyl-phosphatidyl-inositol (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 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, erythroblastec 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)- $\beta$  signaling in some cancer cells and keratinocytes (ref. 2).

**Antigen** : Recombinant protein of the C-ternimal portion of Human CD109

Source : Mouse-Mouse hybridoma

(X63 - Ag 8.653 × BALB/c mouse spleen cells, ascites)

Clone : 11H3 Subclass : IgG₁

Purification : Affinity purified with Protein A

: Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN<sub>3</sub> **Form** 

: 1.0 mL deionized water will be added to the product, then its concentration comes to How to use

100 µg/mL

: Lyophilized product, 5 years at 2 - 8 °C : Solution, 2 years at -20 °C **Stability** 

### **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

This antibody can be used for immuno-precipitation in concentration of about 5 µg

/test (ref. 2).

### Reference

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