

# Datasheet



Mouse mAb to **CD109**  
Clone **EBS-CD-046**  
Isotype **IgG2a-κ**

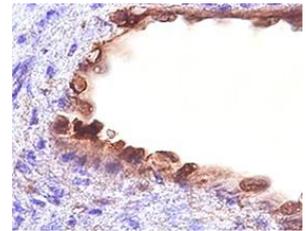
## Source

A BALB/c mouse was immunized with recombinant human CD109.  
Fusion partner: NS-0.

## Specifications

CD109 is a GPI-anchored member of the alpha-2-macroglobulin (A2M) and complement family of proteins. It is expressed on activated T-cells, platelets, hematopoietic stem cells, megakaryocyte precursors, vascular endothelial cells, basal and myoepithelial cells of secretory glands, and squamous cell carcinomas. A 170-180 kDa precursor is autocatalytically reduced to 150 kDa and 120 kDa forms. On keratinocytes CD109 binds TGF-beta and associates with TGF-beta RI and TGF-beta RII, resulting in inhibition of TGF-beta signalling. Polymorphisms of CD109 include the platelet-specific Gov antigen and the blood group ABH antigens.

Alloantibodies directed against these antigens result in unsuccessful platelet transfusions, neonatal alloimmune thrombocytopenia, and post-transfusion purpura.



**Figure 1:** Human blood vessel stained for CD109.

## Species reactivity

Positive: human, monkey.

## Applications

Demonstration of CD109.

Flow cytometry	Frozen sections	Immunofluorescence
+	+	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30-60 min at RT: for staining of formalin-fixed tissues no suitable antigen retrieval method is known to date).

## Positive control

Human platelets, blood vessels.

# Datasheet



## References

- Emori M, et al, *PLoS One* **8(12)**: e84187 (2013).