# Product datasheet

## anti-CD109 mouse monoclonal, EBS-CD-046, purified

### Short overview

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|---|---|
| **Cat. No.** | 691614 |
| **Quantity** | 1 ml (100 µg/ml) |
| **Concentration** | 100 µg/ml |

### Product description

| | |
|---|---|
| **Host** | Mouse |
| **Antibody Type** | Monoclonal |
| **Isotype** | IgG2a kappa |
| **Clone** | EBS-CD-046 |
| **Immunogen** | Recombinant human CD109 |
| **Formulation** | PBS with 0.02% sodium azide |
| **UniprotID** | Q6YHK3 (Human) |
| **Synomym** | CD109 antigen, 150 kDa TGF-beta-1-binding protein, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7, Platelet-specific Gov antigen, p180, r150, CD antigen CD109, CD109, CPAMD7 |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity chromatography |
| **Storage** | 2-8°C |
| **Intended use** | Research use only |
| **Application** | FACS, ICC/IF, IHC |
| **Reactivity** | Human, Monkey |

### Applications

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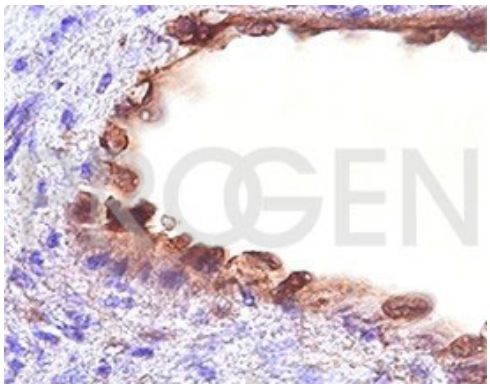
|---|---|
| **Flow Cytometry (FACS)** | 0.5-1.0 µg/million cells in 0.1 ml |
| **Immunocytochemistry (ICC)** | 1:100-1:200 (0.5-1.0 µg/ml) |
| **Immunohistochemistry (IHC) - frozen** | 1:50-1:100 (1-2 µg/ml) |

### Background

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.

Positive control: human platelets, blood vessels.

## Product images



Human blood vessel