

Product datasheet

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

Short overview

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)
Synonym	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

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.

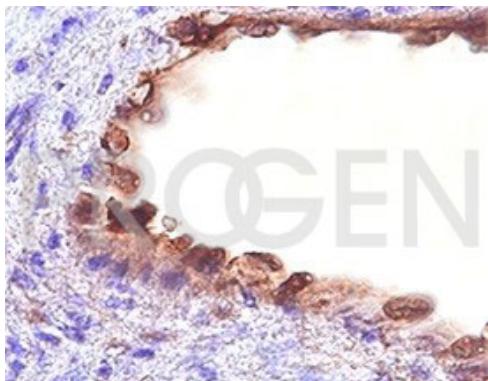
Positive control: human platelets, blood vessels.

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2024 March 28 / Version: 691614/DS-230420ibg | Page 1

Product images



Human blood vessel