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Product datasheet for AM32979PU-N

CD55 Mouse Monoclonal Antibody [Clone ID: PD2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PD2
Applications:	ELISA, FC, WB
Recommended Dilution:	**Immuno Assays** (Ref.1). **Flow Cytometry** (Ref.2). **Western blot** (Ref.1). *Positive Control:* Porcine platelet lysate. Typical starting working dilution: 1/50.
Reactivity:	Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Pig DAF-Ig fusion protein.
Specificity:	The monoclonal antibody PD2 recognizes Pig complement decay accelerating factor (DAF), also designated as CD55.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction with 0.02% Sodium Azide Stabilizer: 0.1% BSA
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!**
Stability:	Shelf life: one year from despatch.
Gene Name:	CD55 molecule (Cromer blood group)
Database Link:	P08174

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Background: Cells express on their surface several proteins which protect against complement attack, namely C receptor I (CR1), decay accelerating factor (DAF), membrane cofactor protein (MCP) and CD59. CR1, DAF and MCP regulate the activation pathways of complement by either accelerating decay of the C3 and C5 convertase (CR1, DAF), or acting as cofactors for the serine protease factor I, which cleaves and irreversibly inactivates C3b (CR1, MCP). Pig DAF (CD55) is a 45-52 kDa transmembrane protein that binds C3b and C4b to inhibit formation and half-life of the C3 convertases. DAF is broadly distributed among cells in contact with serum, including both haematopoietic and nonhaematopoietic cells. Although DAF does not have an essential role in controlling hemolysis of erythrocytes, it has an important role in regulation of the deposition of C3 on nucleated cells.
Together with other complement regulators DAF protects self cells from autologous complementmediated injury. DAF cooperates with CD46 in circumventing autologous C3 deposition, while CD59 inhibits the pathway at the critical end-point.

Synonyms: CR; CROM; DAF; TC