

Product datasheet for **AM32951PU-N**

Cd55 Rat Monoclonal Antibody [Clone ID: 3D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3D5
Applications:	FC, WB
Recommended Dilution:	Flow Cytometry. Western blot. The typical starting working dilution is 1/50.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	NRK cells expressing transmembrane-anchored Mouse DAF
Specificity:	The monoclonal antibody 3D5 recognizes complement decay accelerating factor (DAF), also designated as CD55.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 0.02% Sodium Azide
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, decay accelerating factor for complement
Database Link:	<u>Entrez Gene 13136 Mouse Q61475</u>



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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). Mouse DAF (CD55) is a 60 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 complement-mediated 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