

CD55 Monoclonal Antibody (D17)

Catalog NumberMA1-40184

Product data sheet

Details		Tested Applications	Dilution *
Size	100 µg	Flow Cytometry (Flow)	1:50
Host/Isotope	Mouse / IgG1	Western Blot (WB)	1:50
Class	Monoclonal	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Type	Antibody		
Clone	D17		
Immunogen	Human CD55.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.1 mg/mL		
Storage Conditions	4° C		

Product specific information

MA1-40184 detects CD55 from human samples. MA1-40184 has been successfully used in flow cytometry and Western blot applications. The MA1-40184 immunogen is human CD55.

Background/Target Information

CD55 (decay-accelerating factor, DAF) is a GPI-anchored membrane glycoprotein that protects autologous cells from classical and alternative pathway of complement cascade. Bidirectional interactions between CD55 and CD97 are involved in T cell regulation and CD55 can regulate complement when bound to CD97. In tumors, CD55 promotes neoangiogenesis, tumorigenesis, invasiveness and evasion of apoptosis. CD55 is a 70 kDa glycoprotein (in erythrocytes) anchored in the membrane by glycosylphosphatidylinositol tail. In other cells, the apparent molecular weight is somewhat larger for CD55 and has a substantial content of O-glycans. CD55 binds to activated C4b or C3b complement fragments on the cell surface, preventing the assembly and accelerating the decay of both classical and alternative pathways. CD55 carries the Cromer related blood group antigens. Two alternatively spliced transcripts encoding CD55 have been identified, and the predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower levels. CD55 has been studied to have a role in prostate cancer growth and survival.

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