

Mouse anti-CD46, clone M177 (Monoclonal)

Clone no. M177

MONOSAN

Product name	Mouse anti-CD46, clone M177 (Monoclonal)
Host	Mouse
Applications	IHC-fr,FC,FUNC,ELISA,IP,WB
Species reactivity	human
Conjugate	-
Immunogen	Unknown or proprietary to MONOSAN and/or its suppliers
Isotype	IgG1
Clonality	Monoclonal
Clone number	M177
Size	1 ml
Concentration	100 ug/ ml
Format	-
Storage buffer	PBS with 0.1% BSA and 0.02% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

The monoclonal antibody M177 recognizes CD46, also designated membrane cofactor protein (MCP). CD46 is a 45-70 kDa protein with genetic and tissue-specific heterogeneity. It is expressed on every cell and tissue, with the exception of erythrocytes. CD46 serves to inhibit complement activation on host tissue. It performs this function by serving as a cofactor which binds to C3b and C4b. This binding is permitted by factor I, a serine protease of plasma, to degrade C3b and C4b and serves to protect the host cell against autologous attack. It also serves as a receptor for measles virus. Four isoforms of CD46 predominate and arise by alternative splicing of a single CD46 gene. CD46 cDNA encodes a signal sequence followed by four complement control protein domains (also called short consensus repeats (SCR)). The monoclonal antibody M177 reacts with the SCR2 domain.

References

1. Seya; T et al. J Immunol 1990; 145: 238
2. Iwata, K et al J Biol Chem 1995, 270: 15148
3. Kurita-Taniguchi; M et al. J Immunol 2000; 165: 5143
4. Kurita-Taniguchi M et al. Mol Immunol 2001; 38: 689
5. Lore et al. J Immunol 2007; 179: 1721

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