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FITC Mouse anti-Human CD46

CL7314F

Lot:

Description: CD46, also designated membrane cofactor protein, 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 down-regulate the activation of complement 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. The isoforms differ in the length. 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.

Species: Mouse IgG1

Formulation: 1.0 ml (100 µg/ml) 0.2 µm filtered FITC conjugated antibody solution in PBS, containing 1% bovine serum albumin and 0.02% sodium azide

Application: The FITC conjugated monoclonal antibody M177 can be used for flow cytometry, immunoassays and detection, immunohistology on both frozen and paraffin embedded tissues. Furthermore the antibody is useful for immunoprecipitation, Western blotting under non-reduced conditions.

Use: For immunohistology, flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

Storage and Stability: Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.

References:

1. Kurita-Taniguchi, M et al; Functional modulation of human macrophages through CD46 (Measles virus receptor): production of IL-12 p40 and nitric oxide in association with recruitment of protein tyrosine phosphatase SHP-1 to CD46. *J Immunol* 2000, *165*: 5143
2. Hirano, A et al; Ligation of human CD46 with purified complement C3b or F(ab')₂ of monoclonal antibodies enhances isoform-specific interferon gamma-dependent nitric oxide production in macrophages. *J Biochem* 2002, *132*: 83
3. Kurita-Taniguchi, M et al; Molecular assembly of CD46 with CD9, alpha3-beta1 integrin and protein tyrosine phosphatase SHP-1 in human macrophages through differentiation by GM-CSF. *Mol Immunol* 2001, *38*: 689
4. Seya, T et al; Quantitative analysis of membrane cofactor protein (MCP) of complement. High expression of MCP on human leukemia cell lines, which is down-regulated during cell differentiation. *J Immunol* 1990, *145*: 238

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