

# Datasheet



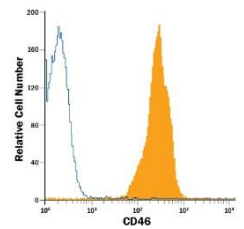
Mouse mAb to **CD46**  
Clone **197-2B1**  
Isotype **IgG2a-κ**

## Source

A BALB/c mouse was immunized with stimulated human leucocytes.  
Fusion partner: NS-1.

## Specifications

197-2B1 reacts with human CD46, a 52-58 kDa single chain type 1 transmembrane molecule. CD46 is a cofactor for the factor I regulation of complement components C3b and C4b and contains four N-terminal short consensus repeat (SCR) modules. It is strongly expressed on salivary gland ducts and kidney ducts and often increased on tumor cells. It also serves as a measles virus receptor, an adherence factor for group A *Streptococcus pyogenes*, and a cellular pilus receptor for pathogenic *Neisseria*. 197-2B1 has been clustered at the VI<sup>th</sup> HLDA Workshop.



**Figure 1:** Human PBL stained for CD46 (FACS).

## Species reactivity

Positive: human.

## Applications

197-2B1 can be applied to test complement activation in pseudo-allergic reactions to acetylsalicylic acid and test for measles virus infection of cells.

| Flow cytometry | Frozen sections | Immunofluorescence |
|----------------|-----------------|--------------------|
| +              | +               | +                  |

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

## Positive control

K562, U937, HL60, HeLa and Jurkat cells, and human lymphocytes. Lymph node and tonsil.

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## References

- Kishimoto T. et al., eds. *Leukocyte Typing VI*, p506-509 and p1145-1146, Garland Publishing, Inc., New York and London, (1997).
- Sandilands, G. et al. *Clin. and Exp. Immunol.* **162(3)**: 516-27 (2010).