

Datasheet



Mouse mAb to **CD46**
Clone **EBS-CD-029**
Isotype **IgG2a-κ**

Source

A BALB/c mouse was immunized with stimulated human PBL and an EBV transformed human lymphoblastoid line. Fusion partner: NS-1.

Specifications

EBS-CD-029 reacts with CD46 or Membrane Cofactor Protein (MCP; 52 kDa-74 kDa). The epitope is on the first “SCR” (short consensus repeat) module, which are located at the N-terminal side of the molecule. All nucleated human cells carry CD46, which has multiple common protein isoforms of 52 kDa to 66 kDa, and 74 kDa on placental cells and some transformed cells. It is strongly expressed on salivary gland ducts and kidney ducts, moderately on lymphocytes and endothelium, and weakly on interstitial tissues and muscle cells. Erythrocytes are negative. CD46 also forms the main receptor for measles virus, an adherence factor for group A *Streptococcus pyogenes* and a cellular pilus receptor for pathogenic *Neisseria*. EBS-CD-029 does not inhibit CD46 function. Cross reaction with gibbon ape leukemia virus (GALV) gp70 has been observed.

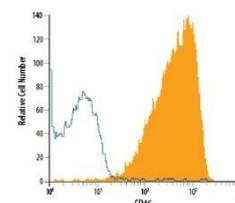


Figure 1: Human PBL stained for CD46 (FACS).

Species reactivity

Positive: human, baboon.
Negative: horse.

Applications

EBS-CD-029 can be applied to test complement activation in pseudo-allergic reactions to acetylsalicylic acid and to test for measles virus infection of cell.

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

- Sparrow et al. *Human Immunol* **7**: 1-15 (1983).
- Purcell et al. *Immunol Cell Biol* **67**: 279-289 (1989).
- Purcell et al. *Immunology* **70**: 155-161 (1990).
- Cho et al. *Clin exp Immunol* **83**: 257-261 (1991).