

Mouse anti-CD46, clone EBS-CD-028 (Monoclonal)

Clone no. EBS-CD-028

MONOSAN

Product name	Mouse anti-CD46, clone EBS-CD-028 (Monoclonal)
Host	Mouse
Applications	FC, IHC-fr, IF
Species reactivity	human
Conjugate	-
Immunogen	stimulated human PBL
Isotype	IgG1-K
Clonality	Monoclonal
Clone number	EBS-CD-028
Size	100 ug
Concentration	100 ug/ml
Format	-
Storage buffer	PBS with 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

EBS-CD-028 reacts with CD46 or Membrane Cofactor Protein (MCP; 52-74 kDa) 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. CD46 acts as a cofactor for complement factor I, a serine protease, which protects autologous cell against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. It may further be involved in the fusion of the spermatozoa with the oocyte during fertilization. CD46 acts as a co-stimulatory factor for T-cells, which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity. A number of viral and bacterial pathogens seem to exploit this property and directly induce an immunosuppressive phenotype in T-cells by binding to CD46.

References

1. Iwata, K., et al. J. Biol. Chem. 270: 15148-15152 (1995)
2. Liszewski, M.K., et al. Adv. Immunol. 61: 201-283 (1996)
3. Liszewski, M.K., et al. J. Immunol. 156: 4415-4421 (1996)
4. -
5. -

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