

Datasheet



Mouse mAb to **CD3**
Clone **RIV9**
Isotype **IgG3-κ**

Source

A BALB/c mouse was immunized with human peripheral lymphocytes.
Fusion partner: P3-X63-Ag8.653.

Specifications

RIV9 reacts with the TCR/CD3 complex on T-cells. Primary signals received through this complex determine the specificity of immune reactions by selecting particular antigen/MHC-responsive clones. CD3 is of variable mass with five invariable chains (25-28, 20 and 16 kDa). RIV9 was used for research in vivo in humans, because it is of the unusual IgG3 subtype.

Species reactivity

Positive; human, mouse, rat.

Applications

RIV9 can be applied in IF and flow cytometry, in immunohistology (frozen sections only) and in particular for induction of T cell activation in vitro and in vivo due to its unusual IgG3 isotype.

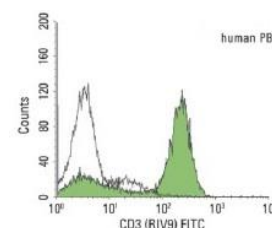


Figure 1: Human PBLs stained with RIV9 (FITC).

ELISA	Flow cytometry	Frozen sections	Functional studies	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

- ELISA (solid phase: 0.1-100 µg/ml; tracer 0.001-100 µg/ml for 30 min at RT).
- Flow cytometry (0.5-1.0 µg/ million cells in 0.1 ml).
- Immunofluorescence (0.5-1.0 µg/ml).
- Immunohistology (1.0-2.0 µg/ml for 30 min at RT; an antigen retrieval method for formalin-fixed tissues is unavailable to date).
- In vivo/in vitro stimulation (0.02-2.0 µg/ml).

Positive control

Human tonsil.

Datasheet



References

- Vaessen LM. et al, *Transplant. Proc.* **21(1 Pt 1)**: 1026-7 (1989).
- Ceuppens JL and van Vaeck F, *Cell. Immunol.* **118(1)**: 136-46 (1989).
- Jiskoot W. et al, *J. Immunol. Methods* **138(2)**: 181-9 (1991).
- Jiskoot W. et al, *J. Immunol. Methods* **138(2)**: 273-83 (1991).