

Datasheet



Mouse mAb to **Mouse CD45**
(all isoforms)
Clone **IBL-5/25**
Isotype **Rat IgG-κ**

Source

A Wistar rat was immunized with mouse lymph node cells.
Fusion partner: Sp2/0-Ag14.

Specifications

IBL-5/25 detects all isoforms of mouse CD45, a glycoprotein with various molecular weights on various cell types. In vitro it enhances the MHC Class II-induced adhesion of purified murine B cells. All haemtopoietic cells express CD45 except erythrocytes. Expression of CD45 is necessary for signaling through the T cell receptor. Interestingly, it associates with several Src-family tyrosine kinases, which are inhibited by tyrosine phosphorylation in their c-termini, suggesting a mechanism for signaling by CD45.

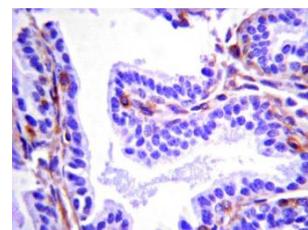


Figure 1: Mouse colon stained with IBL-5/25 (paraffin)

Species reactivity

Positive: mouse.
Negative: human.

Applications

Demonstration of mouse CD45.

| Flow cytometry | Frozen sections | Immunofluorescence | Immunoprecipitation | Paraffin sections | Western blot |
|----------------|-----------------|--------------------|---------------------|-------------------|--------------|
| + | + | + | + | + | + |

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).
- Immunoblot (1-2 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).
- Immunoprecipitation (1-2 µg per 100-500 µg cell lysate protein/1 ml of anti-mouse coated Sepharose-4B suspension)

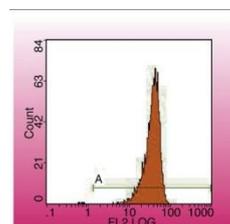


Figure 2: Mouse PBL stained with IBL-5/25 (FACS)

Positive control

Mouse spleen.

Datasheet



References

- Peter Balogh et al, *Dev. Immunol* **6**: 179-185 (1998).
- Balázs M et al. *J Immunol Methods* **218**: 117-21 (1998).