EXBIO Antibodies

PRODUCT DATA SHEET

1F-656-C025

# Monoclonal Antibody to CD8b (rat) Fluorescein (FITC) conjugated (0.025 mg)

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| **Clone:** | 341 |
| **Isotype:** | Mouse IgG1 |
| **Specificity:** | The mouse monoclonal antibody 341 (also known as 34.1) recognizes rat CD8b, the 32-34 kDa beta chain of the CD8 coreceptor, expressed on T cell subsets and some other cell types, such as macrophages. |
| **Regulatory Status:** | RUO |
| **Immunogen:** | CD8 positive Wistar rat splenic T cell hybridomas |
| **Species Reactivity:** | Rat |
| **Preparation:** | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC. |
| **Concentration:** | 0.5 mg/ml |
| **Storage Buffer:** | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| **Storage / Stability:** | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| **Usage:** | The reagent is designed for Flow Cytometry analysis. |
| **Expiration:** | See vial label |
| **Lot Number:** | See vial label |
| **Background:** | The CD8b (CD8 beta) subunit of CD8 T cell coreceptor is expressed in CD8 alpha/beta heterodimers on majority of MHC I-restricted conventional T cells and thymocytes and in CD8 alpha/alpha homodimers on subsets of memory T cells, intraepithelial lymphocytes, NK cells, macrophages, mast cells, and dendritic cells. Regulation of CD8 beta level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 alpha/beta but not alpha/alpha dimers is connected with formation or localization to the lipid rafts. Recruiting triggered TCR complexes to these membrane microdomains as well as affinity of TCR to MHC I is modulated by CD8, thereby affecting the functional diversity of the TCR signaling. |

**For laboratory research only, not for drug, diagnostic or other use.**

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**References:**

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