

11-656-C100

Monoclonal Antibody to CD8b (rat) Purified Antibody (0.1 mg)

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
Application:	Flow Cytometry Recommended dilution: 1.5 µg/ml Immunoprecipitation Western Blotting Immunohistochemistry (frozen sections) Functional Application Macrophage stimulation, in vitro blocking of allogenic responses
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
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.

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**Antibodies****References:**

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz