



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



CD8 Monoclonal Antibody (Clone RIV11)

Item No. 10004715

Overview and Properties

Contents:	This vial contains 100 µg of protein A-purified monoclonal antibody.
Species Reactivity:	(+) Human; other species not tested
Form:	Solid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS, pH 7.2, when resuspended in 100 µl of double distilled water
Clone:	RIV11
Host:	Mouse
Isotype:	IgG1
Applications:	Flow cytometry (FC), immunocytochemistry (ICC), and immunohistochemistry (IHC); the recommended starting concentration for FC is 1 µg/50 ml human whole blood and 2-10 µg/ml for ICC and IHC. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Description

CD8 is a type I transmembrane glycoprotein that functions as a T cell receptor (TCR) co-receptor.¹ It exists as an αα homodimer or αβ heterodimer and is composed of an extracellular IgV-like domain that interacts with MHC class I molecules and a cytoplasmic tail that associates with the tyrosine kinase p56^{lck} and mediates signal transduction to the TCR. It is expressed on the surface of, and used as a marker for, cytotoxic T lymphocytes (CTLs). CD8 is also expressed on natural killer (NK) and dendritic cells and its expression is used to characterize the development stage of thymocytes. CD8 promotes CTL-mediated killing of virally infected cells or cancer cells by binding to antigen-displaying MHC class I molecules and enhancing TCR-mediated intracellular signaling pathways.² Neutralization of circulating CD8⁺ cells with monoclonal antibodies reduces hepatic virus elimination and decreases splenic CTL activity in a mouse model of lymphocytic choriomeningitis virus (LCMV) infection.³ Adoptive transfer of antigen-experienced CD8⁺ T cells, in combination with IL-2, reduces tumor growth and increases survival in a B16/F10 murine melanoma model.⁴ The number of circulating CD8⁺ T cells is increased in individuals with HIV-1 infection and is associated with stroke, ischemic heart disease, and non-AIDS-related complications.⁵ Cayman's CD8 Monoclonal Antibody (Clone RIV11) can be used for flow cytometry (FC), immunocytochemistry (ICC), and immunohistochemistry (IHC) applications.

References

1. Laugel, B., Cole, D.K., Clement, M., *et al.* The multiple roles of the CD8 coreceptor in T cell biology: Opportunities for the selective modulation of self-reactive cytotoxic T cells. *J. Leukoc. Biol.* **90**(6), 1089-1099 (2011).
2. Cole, D.K., Laugel, B., Clement, M., *et al.* The molecular determinants of CD8 co-receptor function. *Immunology* **137**(2), 139-148 (2012).
3. Moskophidis, D., Cobbold, S.P., Waldmann, H., *et al.* Mechanism of recovery from acute virus infection: Treatment of lymphocytic choriomeningitis virus-infected mice with monoclonal antibodies reveals that Lyt-2⁺ T lymphocytes mediate clearance of virus and regulate the antiviral antibody response. *J. Virol.* **61**(6), 1867-1874 (1987).
4. Saito, H., Okita, K., Chang, A.E., *et al.* Adoptive transfer of CD8⁺ T cells generated from induced pluripotent stem cells triggers regressions of large tumors along with immunological memory. *Cancer Res.* **76**(12), 3473-3483 (2016).
5. Mudd, J.C. and Lederman, M.M. CD8 T cell persistence in treated HIV infection. *Curr. Opin. HIV AIDS* **9**(5), 500-505 (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 10/11/2023

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM