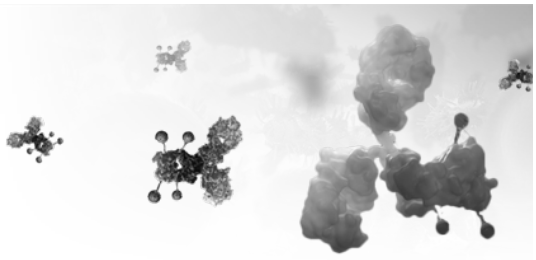

Rat Anti-Mouse CD8α Monoclonal antibody, clone 2.43 (CABT-L4316)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The 2.43 monoclonal antibody reacts with mouse CD8α. The CD8 antigen is a transmembrane glycoprotein that acts as a co-receptor for the T cell receptor (TCR).
Target	Mouse CD8α
Immunogen	Mouse CTL clone L3
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	2.43
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD8+ T cell depletion, WB
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

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	Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The 2.43 monoclonal antibody reacts with mouse CD8α. The CD8 antigen is a transmembrane glycoprotein that acts as a co-receptor for the T cell receptor (TCR). Like the TCR, CD8 binds to class I MHC molecules displayed by antigen presenting cells (APC). CD8 is primarily expressed on the surface of cytotoxic T cells, but can also be found on thymocytes, natural killer cells, and some dendritic cell subsets. CD8 most commonly exists as a heterodimer composed of one CD8α and one CD8β chain however, it can also exist as a homodimer composed of two CD8α chains. Both the CD8α and CD8β chains share significant homology to immunoglobulin variable light chains. The molecular weight of each CD8 chain is approximately 34 kDa. The 2.43 antibody exhibits depleting activity when used in vivo.
Keywords	CD8A;CD8a molecule;T-cell surface glycoprotein CD8 alpha chain;CD8 antigen, alpha polypeptide (p32);

GENE INFORMATION

Official Symbol	CD8a molecule
Synonyms	CD8A; CD8a molecule; T-cell surface glycoprotein CD8 alpha chain; CD8 antigen, alpha polypeptide (p32);
References	Balogh, K. N., et al. (2018). "Macrophage Migration Inhibitory Factor protects cancer cells from immunogenic cell death and impairs anti-tumor immune responses." PLoS One 13(6): e0197702. PubMed;DeBerge, M. P., et al. (2014). "Soluble, but not transmembrane, TNF-alpha is required during influenza infection to limit the magnitude of immune responses and the extent of immunopathology." J Immunol 192(12): 5839-5851. PubMed;Deng, L., et al. (2014). "Irradiation and anti-PD-L1 treatment synergistically promote antitumor immunity in mice." J Clin Invest 124(2): 687-695. PubMed;Vegran, F., et al. (2014). "The transcription factor IRF1 dictates the IL-21-dependent anticancer functions of TH9 cells." Nat Immunol 15(8): 758-766. PubMed;Van der Jeught, K., et al. (2014). "Intratumoral administration of mRNA encoding a fusokine consisting of IFN-beta and the ectodomain of the TGF-beta receptor II potentiates antitumor immunity." Oncotarget 5(20): 10100-10113. PubMed

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