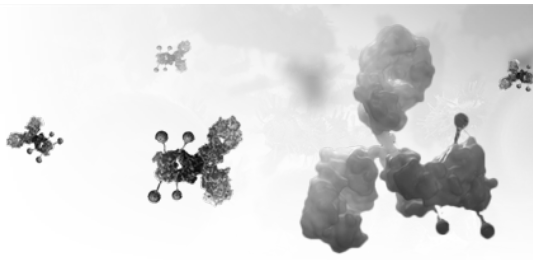

Mouse Anti-Mouse CD8 (Lyt 2.1) Monoclonal antibody, clone 116-13.1 (HB129) (CABT-L4414)

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

PRODUCT INFORMATION

Product Overview	The 116-13.1 monoclonal antibody reacts with mouse CD8 also known as Lyt-2. 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 CD8αchains. 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 116-13.1 antibody exhibits depleting activity when used in vivo .
Target	Mouse CD8 (Lyt 2.1)
Immunogen	CE mouse spleen cells and thymocytes
Isotype	IgG2a, κ
Source/Host	Mouse
Species Reactivity	Mouse
Clone	116-13.1 (HB129)
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD8+ T cell depletion, FC
Molecular Weight	150 kDa

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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] 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	CD8 (cluster of differentiation 8) is a transmembrane glycoprotein that serves as a co-receptor for the T cell receptor (TCR). Like the TCR, CD8 binds to a major histocompatibility complex (MHC) molecule, but is specific for the class I MHC protein. There are two isoforms of the protein, alpha and beta, each encoded by a different gene. In humans, both genes are located on chromosome 2 in position 2p12.
Keywords	CD8;cluster of differentiation 8;CD8a;CD8b;CD8A;CD8B;CD8B1

GENE INFORMATION

Official Symbol	cluster of differentiation 8
Synonyms	CD8; cluster of differentiation 8; CD8a; CD8b; CD8A; CD8B; CD8B1
References	Racine, J. J., et al. (2014). "Induction of mixed chimerism depletes pre-existing and de novo-developed autoreactive B cells in autoimmune NOD mice." Diabetes 63(6): 2051-2062. PubMed;

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