Product Datasheet
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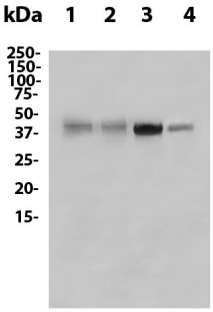
Mouse CD152 (CTLA-4) Antibody

Purified in vivo PLATINUM™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C2841
Clone:	9H10
RRID:	AB_2829599
Isotype:	Syrian Hamster IgG
Storage:	Sterile 2 to 8°C



Lane 1: 20 ug reduced A-20 whole cell lysate (Prod. No. A232)

Lane 2: 10 ug reduced A-20 whole cell lysate (Prod. No. A232)

Lane 3: 1 ug reduced recombinant mouse CTLA-4 (Prod. No. C1340)

Lane 4: 0.5 ug reduced recombinant mouse CTLA-4 (Prod. No. C1340)

Primary: anti-mouse CTLA-4 antibody (9H10) at 8 ug/ml (Prod. No. C2841)

Secondary: HRP labeled goat anti-syrian hamster at 1:1000 dilution (Prod. No. S221)

Predicted band size: 33-43 kDa

Product Description

Specificity:
Anti-Mouse CLTA-4 (Clone 9H10) recognizes an epitope on Mouse CD152. This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype. This antibody was also pathogen tested and third-party certified by IDEXX BioReseach to meet the lowest mycoplasma specification and free of any viral pathogens of concern.

Antigen Distribution:
Activated T cells

Background:
CTLA4 (Cytotoxic T-Lymphocyte Antigen 4) also known as CD152, is a protein which is expressed on the surface of Helper T cells and plays an important regulatory role in the immune system.1 CTLA4 is a member of the immunoglobulin superfamily, expressed on the surface of Helper T cells. CTLA4 transmits an inhibitory signal to T cells.2,3 CTLA4 is potentially therapeutic in autoimmune diseases4, such as rheumatoid arthritis, HIV, autoimmune thyroid disease, multiple sclerosis and may also be useful during organ transplantation and cancer treatment. The 9H10 antibody has been shown to promote T cell co-stimulation by blocking CTLA-4 binding to the B7 co-receptors, allowing for CD28 binding.

Known Reactivity Species:
Mouse

Format:
Purified in vivo Functional Grade, in vivo PLATINUM™

Immunogen:
Mouse CTLA-4-human IgG1 fusion protein

Formulation
This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity
≥98% monomer by analytical SEC, >95% by SDS Page

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Endotoxin
<0.5 EU/mg as determined by the LAL method

Storage and Stability
Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.
Avoid Repeated Freeze Thaw Cycles.

Product Preparation
Functional grade preclinical antibodies are manufactured in an animal free facility using in vitro cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Pathogen Testing
To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

Country of Origin
USA

References
1) Allison JP, et al. 1995. Science 270:932.