Leinco Technologies, Inc.
excellence in early discovery research™

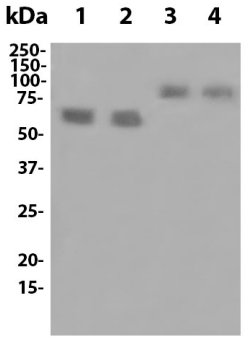
Anti-Mouse CD223 (LAG-3)

Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	L306
Clone:	C9B7W
RRID:	AB_2737552
Isotype:	Rat IgG1 κ



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: 2 ug reduced recombinant mouse CD223 (LAG-3)

Lane 4: 1 ug reduced recombinant mouse CD223 (LAG-3)

Primary: anti-mouse CD223 (LAG-3) antibody (C9B7W) at 8 ug/ml (Prod. No. L306)

Secondary: HRP labeled goat anti-rat at 1:1000 dilution (Prod. No. R1215)

Predicted band size: 70-90 kDa

Product Description

Specificity:
LAG-3 antibody (clone C9B7W) recognizes and specifically binds to an epitope in the D2 domain of CD223.

Antigen Distribution:
CD223 (LAG-3) is expressed on T regulatory cells, activated T cells and NK cells.

Background:
LAG-3 is a 70-kD, type-I transmembrane glycoprotein within the Ig superfamily with four extracellular Ig-like domains (D1 to D4) and is structurally homologous to CD4. LAG-3 is a cell surface molecule with various biologic effects on T cell function. It has been reported to be involved in Treg suppressive function. It negatively regulates cellular proliferation, activation, and homeostasis of T cells, in a similar manner to CTLA-4 and PD-1. Human LAG-3 is approximately 70% homologous with murine LAG3, and it binds MHC class II molecules with higher affinity than CD4. As an immune checkpoint receptor, LAG-3 is the target of various drug development programs seeking to expand treatments for cancer and autoimmune disorders. In its soluble form, LAG-3 is being developed as a cancer drug. As an antagonist, LAG-3 antibody can activate T effector cells via the downregulation of the LAG-3 inhibiting signal into pre-activated LAG-3+ cells. In addition, it can inhibit antigen-specific Treg suppressive activity. As an agonist antibody, it can be used to diminish an autoimmune response and is currently being investigated for the treatment of plaque psoriasis.

Known Reactivity Species:
Mouse

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

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Immunogen:
Murine CD223-Ig 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
≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin
< 1.0 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.
Other Applications Reported in Literature:

B LAG-3 antibody (clone C9B7W) blocks the function of murine LAG-3 *in vivo*.

Country of Origin
USA

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