



Rat Anti-Mouse LAG-3 Monoclonal antibody, clone C9B7W (CABT-L4451)

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

PRODUCT INFORMATION

Product Overview	The C9B7W monoclonal antibody reacts with mouse LAG-3 also known as CD223. LAG-3 is a 70 kDa type I transmembrane glycoprotein encoded by the Lag3 gene that belongs to the immunoglobulin superfamily
Target	Mouse LAG-3
Immunogen	Mouse CD223-Ig fusion protein
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	C9B7W
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo LAG-3 neutralization, in vitro LAG-3 neutralization, FC, 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] 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 C9B7W monoclonal antibody reacts with mouse LAG-3 also known as CD223. LAG-3 is a 70 kDa type I transmembrane glycoprotein encoded by the Lag3 gene that belongs to the immunoglobulin superfamily. LAG-3 is expressed by activated T lymphocytes, NK cells, and T regulatory cells. LAG-3's main ligand is MHC class II which it binds to with a higher affinity than even CD4 does. Upon binding LAG-3 is thought to play similar roles as CTLA-4 and PD-1 including downregulation of TCR signaling and inhibition of CD4-dependent T cell function. LAG-3 has also been demonstrated to contribute to the suppressor function of T regulatory cells. In contrast to inhibition, LAG-3 has been shown to promotes immune responses by activating antigen-presenting cells. The C9B7W antibody has been reported to block the function of murine LAG-3 in vivo and in vitro but studies suggest that the antibody does not block binding of LAG-3 to MHC class II.
---------------------	--

Keywords	LAG3;lymphocyte-activation gene 3;Ly66;CD223;LAG-3;lymphocyte activation gene 3 protein;
-----------------	--

GENE INFORMATION

Official Symbol	lymphocyte-activation gene 3
Synonyms	LAG3; lymphocyte-activation gene 3; Ly66; CD223; LAG-3; lymphocyte activation gene 3 protein;