



## *Anti-mouse LAG-3 Antibody*

### ORDERING INFORMATION

**Catalog Number:** AF3328

**Lot Number:** WYC01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse LAG-3 extracellular domain

**Immunogen:** NS0-derived rmLAG-3 extracellular domain

**Ig Type:** goat IgG

**Applications:** Western blot  
Direct ELISA

### *Preparation*

Produced in goats immunized with purified, NS0-derived, recombinant mouse Lymphocyte Activation Gene-3 (rmLAG-3; aa 24 - 442; Accession # Q61790) extracellular domain. Mouse LAG-3 specific IgG was purified by mouse LAG-3 affinity chromatography. LAG-3, also known as CD223, is a type I membrane protein that belongs to the immunoglobulin superfamily (IGSF). The extracellular domain of LAG-3 contains a V-set and three C2-set Ig domains. LAG-3 is expressed on activated T cells, NK cells and B cells. It binds to MHC class II molecules with much higher avidity than CD4, a LAG-3 structural homolog. Mouse and human LAG-3 have been shown to be negative regulators of T-cell function and homeostasis. The extracellular domain of human and mouse LAG-3 share 69% amino acid sequence identity.

### *Formulation*

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### *Reconstitution*

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

### *Storage*

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### *Specificity*

This antibody has been selected for its ability to recognize mouse LAG-3 in direct ELISAs and western blots. In these formats, this antibody shows less than 1% cross-reactivity with rhLAG-3.

### *Applications*

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse LAG-3. The detection limit for rmLAG-3 is approximately 5 ng/lane under non-reducing and reducing conditions.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse LAG-3. The detection limit for rmLAG-3 is approximately 0.1 ng/well.

**Optimal dilutions should be determined by each laboratory for each application.**