

# Mouse Anti-Human CD223 (LAG-3) mAbConjugated Antibody

Catalog No: #CCM087

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Package Size: #CCM087-AF350 100ul #CCM087-AF405 100ul #CCM087-AF488 100ul

#CCM087-AF555 100ul #CCM087-AF594 100ul #CCM087-AF647 100ul

#CCM087-AF680 100ul #CCM087-AF750 100ul #CCM087-Biotin 100ul

## Description

Product Name	Mouse Anti-Human CD223 (LAG-3) mAbConjugated Antibody
Host Species	Mouse
Clonality	Monoclonal
Species Reactivity	Hu
Specificity	This antibody recognizes human LAG-3 in Western blot and FACS. It cross reacts with mouse PD-L1.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Product Description

LAG-3 is a surface molecule located closely to CD4 but sharing less than 20% homology at the amino acid level. Similar to CD4, LAG-3 binds to major histocompatibility complex-II (MHC-II) on antigen presenting cells (APCs), but with a much stronger affinity. LAG-3 is expressed on the cell

membranes of TILs, activated CD4+ and CD8+T cells as well as regulatory T cells (Tregs). It is also expressed on natural killer (NK) cells, B cells, and dendritic cells (DCs). LAG-3 belongs to the immunoglobulin superfamily (IgSF) and associates with the CD3/T cell receptor (TCR) complex. LAG-3 interacts with MHCII to prohibit the binding of the same MHC molecule to TCR and CD4, thus directly hindering TCR signaling in immune response. Crosslinking of LAG-3 and CD3 can impair T cell proliferation and cytokine secretion by inhibiting calcium ion fluxes.

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Note: This product is for in vitro research use only