Mouse Anti-Human CD233 (LAG-3)

Catalog No: #P1066

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Description

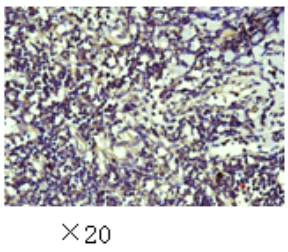
Product Name	Mouse Anti-Human CD233 (LAG-3)
Host Species	Mouse
Clonality	Monoclonal
Clone No.	2C9
Isotype	Mouse IgG1, κ
Applications	IHC
Species Reactivity	Hu
Specificity	This antibody recognizes human LAG-3 in Western blot and FACS. It cross reacts with mouse PD-L1.
Formulation	Lyophilized from a 0.2μm filtered solution in phosphate buffered saline (PBS) and reconstitute with sterile PBS .
Storage	Store protected from light at 2-8°C. Do not freeze. The expiration date is indicated on the vial label.

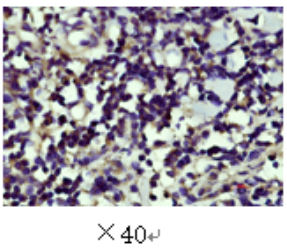
Application Details

Preparation:The monoclonal antibody was purified from tissue culture supernatant or ascites by protein G affinity chromatography.

Product Notices:This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 10^6 cells in a 100-?l experimental sample (per test). An isotype control should be used at the same concentration as the antibody of interest.

Images





Immunofluorescence analysis of tonsil tissue using LAG-3.

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.

Note: This product is for in vitro research use only