

# Product Datasheet

## LAG-3 Antibody (17B4) [FITC]

### NBP1-97665

Unit Size: 0.05 mg

Store at 4C in the dark.

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**NBP1-97665****LAG-3 Antibody (17B4) [FITC]**

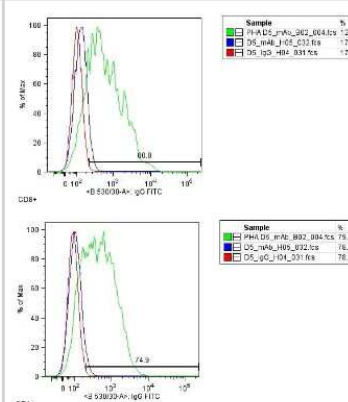
Product Information	
Unit Size	0.05 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	17B4
Preservative	0.02% Sodium Azide
Isotype	IgG1
Conjugate	FITC
Purity	Protein A or G purified
Buffer	PBS, 50 mM Tris/HCl, and 1.0% BSA
Target Molecular Weight	57.5 kDa

Product Description	
Host	Mouse
Gene ID	3902
Gene Symbol	LAG3
Species	Human, Primate
Reactivity Notes	Use in Primate reported in scientific literature (PMID:32284611).
Specificity/Sensitivity	LAG-3 Antibody (17B4) [FITC] recognizes the 30 aa extra-loop of the first N-terminal D1 domain of human LAG-3.
Immunogen	This LAG-3 Antibody (17B4) [FITC] was prepared from a synthetic peptide corresponding to 30 aa (GPPAAAPGHPLAPGPHPAAPSSWGPRPRRY) from the first N-terminal D1 domain of human LAG-3 (lymphocyte activation gene-3).

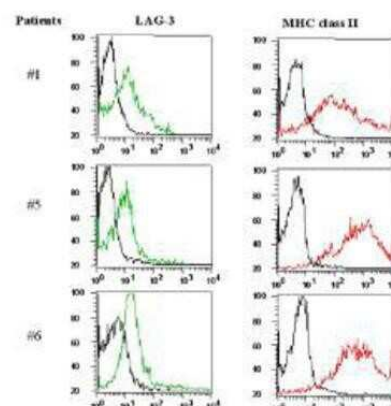
Product Application Details	
Applications	Flow Cytometry, Immunohistochemistry
Recommended Dilutions	Flow Cytometry 1:10-1:1000, Immunohistochemistry
Application Notes	Use in IHC reported in scientific literature (PMID: 30384489).

**Images**

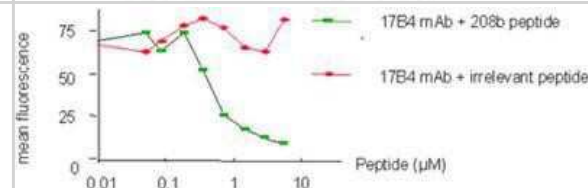
Flow Cytometry: LAG-3 Antibody (17B4) [FITC] [NBP1-97665] - LAG-3 staining in resting and PHA activated lymphocytes. Image from verified customer review.



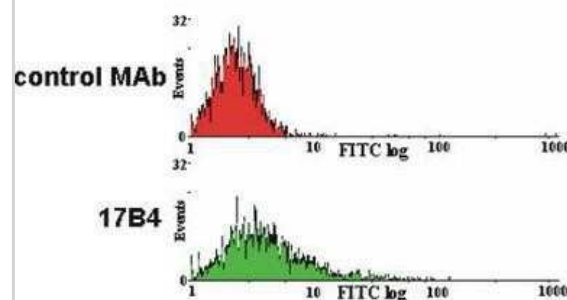
Flow Cytometry: LAG-3 Antibody (17B4) [FITC] [NBP1-97665] - Tumor infiltrating lymphocytes (TILs) express LAG-3 (detected using LAG-3 (human), mAb (17B4). Method: Freshly dissociated single cell suspensions of renal cell carcinoma TILs are incubated with LAG-3 (human), mAb (17B4) (FITC) (5ug/ml) and anti-MHC Class II molecules (PE) for 30 min. and washed twice in saline buffer. Additional staining with anti-CD3 allowed a gate analysis of total T cells. The LAG-3 and MHC II profiles of CD3+-gated cells for 3 patients are shown [5].



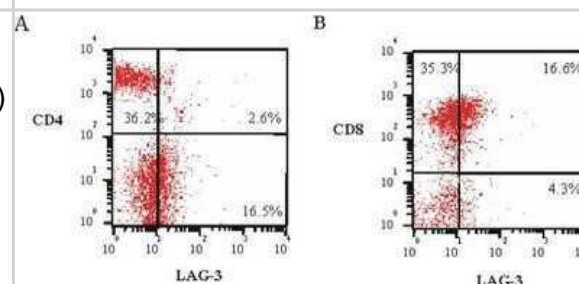
Flow Cytometry: LAG-3 Antibody (17B4) [FITC] [NBP1-97665] - Specific inhibition of 17B4 staining. Method: LAG-3 (human), mAb (17B4) (FITC) (10ug/ml) (is preincubated with a specific peptide epitope (208b) or a control tetanus toxoid (TT) peptide at different molarities prior to staining of TILs. Stained cells are then analyzed by FC.



Flow Cytometry: LAG-3 Antibody (17B4) [FITC] [NBP1-97665] - LAG-3 expression on activated human peripheral blood mononuclear cells (PBMC) detected with LAG-3 (human), mAb (17B4) (FITC). Method: T lymphocytes from human PBMC are stimulated with 1ug/ml of PHA for three days. Then, after seven days of culture,  $3 \times 10^6$  three-days PHA-activated human PBMC are treated with LAG-3 (human), mAb (17B4) (FITC) or FITC coupled isotype-matched (IgG1) control MAb (used at a saturating dilution of 1:800 and 1:150 respectively) for 30 min. at 4C in RPMI 1640 and washed twice with 1x PBS. Stained cells are then analysed by FC [4].



Flow Cytometry: LAG-3 Antibody (17B4) [FITC] [NBP1-97665] - Expression of LAG-3 on CD4+ and CD8+ subpopulations of tumour infiltrating lymphocytes (TILs) detected with LAG-3 (human), mAb (17B4) (FITC). Method: TILs from a dissociated renal cell carcinoma sample, stained with 5ug/ml LAG-3 (human), mAb (17B4) (FITC) and FITC-coupled anti-CD4 or -CD8, are analyzed by a two-colour FACS analysis. Additional staining with anti-CD3 allowed a gate analysis of total T cells. Values indicate percentages in each quadrant [5].



## Publications

Harper J, Gordon S, Chan C et al. CTLA-4 and PD-1 dual blockade induces SIV reactivation without control of rebound after antiretroviral therapy interruption Nat Med. [PMID: 32284611] (FLOW, Primate)

Pericart S, Tosolini M, Gravelle P et al. Profiling Immune Escape in Hodgkin's and Diffuse large B-Cell Lymphomas Using the Transcriptome and Immunostaining Cancers (Basel) 2018-10-31 [PMID: 30384489] (IF/IHC, Human)

Details:

Citation using the FITC form of this antibody.

Macon-Lemaitre L, Triebel F. The negative regulatory function of the lymphocyte-activation gene-3 co-receptor (CD223) on human T cells. Immunology 2005-05-31 [PMID: 15885122]

Details:

Citation using the FITC format of this antibody.

Di Carlo E, Cappello P, Sorrentino C et al. Immunological mechanisms elicited at the tumour site by lymphocyte activation gene-3 (LAG-3) versus IL-12: sharing a common Th1 anti-tumour immune pathway. J Pathol. 2005-01-01 [PMID: 15586367]

Baixeras E, Huard B, Miossec C et al. Characterization of the lymphocyte activation gene 3-encoded protein. A new ligand for human leukocyte antigen class II antigens. J Exp Med. 1992-08-01 [PMID: 1380059]

Huard B, Gaulard P, Faure F et al. Cellular expression and tissue distribution of the human LAG-3-encoded protein, an MHC class II ligand. Immunogenetics. 1994-01-01 [PMID: 7506235]





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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