

For Research Use Only

anti-LAG3 recombinant VHH, CoraLite® Plus 647



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Catalog Number: CL647-lt

Basic Information

Catalog Number:
CL647-lt

Applications:
FC, IF

Host:
Alpaca

Conjugate:
CoraLite® Plus 647

Type :
Nanobody

Class:
Recombinant

RRID:
AB_3101918

Molecular Weight:
15.141 kDa

Description

CL647-lt targets LAG3 in FC and IF applications and shows reactivity with Human samples.

Affinity

Picomolar range, below the assay limit (biolayer interferometry)

Excitation/Emission Maxima Wavelengths

654 nm / 674 nm

Background

LAG-3, also known as CD223, is an immune checkpoint molecule that regulates both T-cell activation and homeostasis. LAG-3 is expressed on activated T cells, NK cells, regulatory T cells, and plasmacytoid dendritic cells. It is a CD4-related molecule that binds MHC class II. LAG-3 plays an important role in modulating T cell expansion and function, and blockade of LAG-3 with monoclonal antibodies can augment T cell function. (PMID: 15634887; 21086108; 28783703)

Storage

Storage:

Store at -20°C; Shipped at ambient temperature.

Storage Buffer:

500 mM NaCl, 10 mM HEPES pH 7.0, 5 mM EDTA, 0.09% sodium azide

For technical support and original validation data for this product please contact:

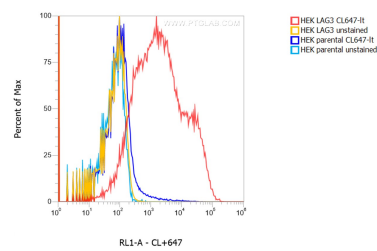
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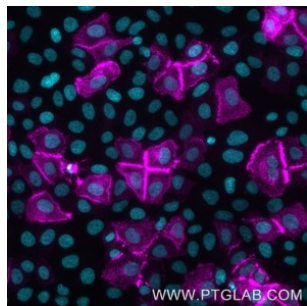
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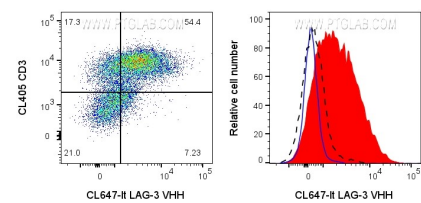
Selected Validation Data



1X10⁶ HEK LAG3 transient transfected cells (red) and HEK parental cells were surface stained with 0.25 µg CoraLite® Plus 647 conjugated-LAG3 VHH (CL647-lt). Cells were not fixed.



Live HeLa cells transfected with human LAG3 were immunostained with CoraLite® Plus 647 conjugated-LAG3 VHH (CL647-lt, 1:500, magenta). Cells were fixed and nuclei were stained with DAPI (cyan). Epifluorescence images were acquired with a 20x objective and post-processed. Note: Immunostaining with CL647-lt can also be performed after formaldehyde fixation of the cells.



Left: 1x10⁶ PHA-treated (3d) human PBMCs were surface stained with 0.5ug CoraLite® Plus 647 conjugated LAG-3 VHH (CL647-lt) and CL405 CD3 (CL405-65151). Right: 1x10⁶ PHA-treated (3d) human PBMCs were surface stained with 0.5ug CoraLite® Plus 647 conjugated LAG-3 VHH (CL647-lt) (red) or unstained (blue). 1X10⁶ untreated human PBMCs were surface stained with 0.5ug CoraLite® Plus 647 conjugated LAG-3 VHH (CL647-lt) (black dashed). Cells were treated with FC Receptor Block prior to staining. Cells were not fixed. Lymphocytes were gated.