For Research Use Only

anti-LAG3 recombinant VHH, for 2xCys conjugation

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Catalog Number: ltCys2

Basic Information

Catalog Number:
ltCys2

Applications:
Conjugation

Host:
Alpaca

Conjugate:
Unconjugated

Type :
Nanobody

Class:
Recombinant

Molecular Weight:
15.141 kDa

Description

Alpaca anti-LAG3 VHH, purified recombinant binding protein. Suitable for for cysteine conjugation with thiol-reactive reagents, e.g. maleimides. Note: unconjugated VHHs are not suited for usage without prior labeling, since they contain reactive Cysteines. Shipment and storage buffers contain TCEP to keep Cysteines reduced.

Affinity

in the picomolar range, below the assay limit (biolayer interferometry)

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; Avoid exposure to light. Shipped at dry ice.

Storage Buffer:
10 mM HEPES, 500 mM NaCl, pH 7.0, 1 mM TCEP, 0.09% sodium azide

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

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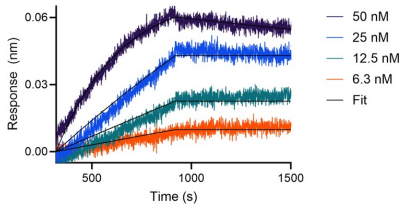
Selected Validation Data



The affinity of anti-human LAG3 recombinant VHH towards human LAG3 was determined using biolayer interferometry (BLI). Biotinylated, recombinant human LAG3 was immobilized on Streptavidin biosensors and assayed with 6.3 to 50 nM of CoraLite® Plus 647-conjugated LAG3 VHH (CL647-lt). Fit indicates a 1:1 binding model fitted to the data.