For Research Use Only

anti-MSLN recombinant VHH, for 2xCys conjugation

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Catalog Number: mslnCys2

Basic Information

Catalog Number:
mslnCys2

Applications:
Conjugation

Host:
Alpaca

Conjugate:
Unconjugated

Type:
Nanobody

Class:
Recombinant

RRID:
AB_3101940

Molecular Weight:
15.710 kDa

Description

Alpaca anti-MSLN 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 Cysteins reduced.

Affinity

Picomolar range, below the assay limit (biolayer interferometry)

Background

Mesothelin (MSLN) is a 40kDa GPI-anchored surface glycoprotein that is expressed on pleural and peritoneal mesothelial cells, but not in other non-neoplastic tissues. The mesothelin gene encodes a 69-71kDa precursor protein that is processed to a 40kDa membrane-bound protein termed mesothelin and a 31kDa shed fragment called megakaryocyte-potentiating factor (MPF) that is released from the cell. Mesothelin is a tumor differentiation antigen present at low levels on a restricted set of normal adult tissues (e.g. mesothelium), and is expressed at high levels in mesotheliomas, as well as ovarian, pancreatic, and lung cancers. Mesothelin may be a new target for immunotherapy (PMID: 20922056, 18691948, 15217923).

Storage

Storage:
Store at -20°C

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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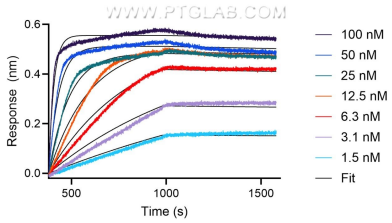
Selected Validation Data



The affinity of anti-human MSLN recombinant VHH towards human MSLN was determined using biolayer interferometry (BLI). Biotinylated, recombinant human MSLN was immobilized on Streptavidin biosensors and assayed with 1.5 to 100 nM of FITC Plus conjugated-MSLN VHH (FITC-msln). Fit indicates a 1:1 binding model fitted to the data.