

Catalog Number: FITC-msln

Basic Information

Catalog Number:
FITC-msln**Applications:**
FC, IF**Host:**
Alpaca**Conjugate:**
FITC Plus**Type:**

Nanobody

Class:

Recombinant

RRID:

AB_3101941

Molecular Weight:

15.710 kDa

Description

FITC-msln targets MSLN in FC and IF applications and shows reactivity with Human samples.

Affinity

Picomolar range, below the assay limit (biolayer interferometry)

Excitation/Emission Maxima Wavelengths

495 nm / 524 nm

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

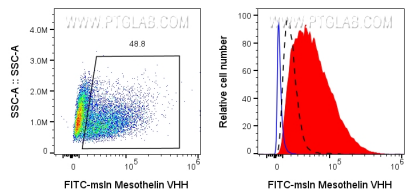
Storage:

Store at -20°C

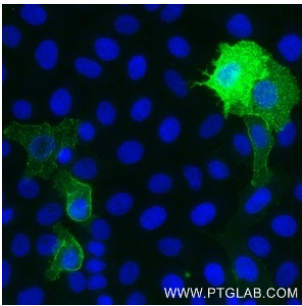
Storage Buffer:

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

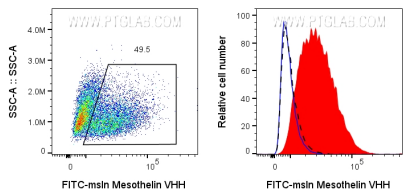
Selected Validation Data



Left: 0.5x10⁶ mixed HeLa and PC-3 cells were surface stained with 0.5ug FITC Plus conjugated MSLN VHH (FITC-msln). Right: 0.5x10⁶ HeLa (red) or PC-3 (black dashed) cells were surface stained with FITC Plus conjugated MSLN VHH (FITC-msln) or unstained (blue).



HeLa cells transfected with human Mesothelin were live immunostained with FITC Plus conjugated MSLN VHH (1:500, green). Nuclei were stained with DAPI (blue or cyan) after cell fixation. Epifluorescence images were acquired with a 20x objective and post-processed. Comment: Immunostaining with FITC Plus conjugated MSLN VHH can be performed live or after formaldehyde fixation.



Left: 0.5x10⁶ mixed HeLa and PC-3 cells were surface stained with 0.125ug FITC Plus conjugated Mesothelin VHH (FITC-msln). Right: 0.5x10⁶ HeLa (red) or PC-3 (black dashed) cells were surface stained with 0.125ug FITC Plus conjugated Mesothelin VHH (FITC-msln) or unstained (blue).