

For Research Use Only

anti-MSLN recombinant VHH, CoraLite® Plus 647



www.ptglab.com

Catalog Number: CL647-msln

Basic Information

Catalog Number:

CL647-msln

Applications:

FC, IF

Host:

Alpaca

Conjugate:

CoraLite® Plus 647

Type:

Nanobody

Class:

Recombinant

RRID:

AB_3101943

Molecular Weight:

15.710 kDa

Description

CL647-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

654 nm / 674 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:

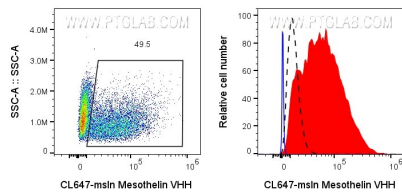
500 mM NaCl, 10 mM HEPES pH 7.0, 5 mM EDTA, 0.09% sodium azide

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

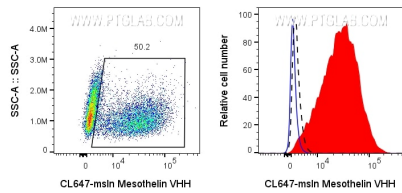
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

This product is exclusively available under
Proteintech Group brand and is not available
to purchase from any other manufacturer.

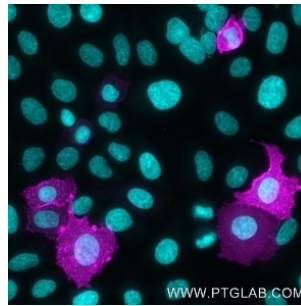
Selected Validation Data



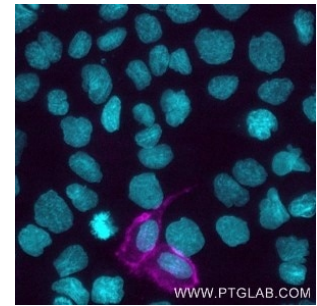
Left: 0.5×10^6 mixed HeLa and PC-3 cells were surface stained with 0.5ug CoraLite® Plus 647 conjugated MSLN VHH (CL647-msln). Right: 0.5×10^6 HeLa (red) or PC-3 (black dashed) cells were surface stained with CoraLite® Plus 647 conjugated MSLN VHH (CL647-msln) or unstained (blue).



Left: 0.5×10^6 mixed HeLa and PC-3 cells were surface stained with 0.0625ug CoraLite® Plus 647 conjugated Mesothelin VHH (CL647-msln). Right: 0.5×10^6 HeLa (red) or PC-3 (black dashed) cells were surface stained with 0.0625ug CoraLite® Plus 647 conjugated Mesothelin VHH (CL647-msln) or unstained (blue).



HeLa cells transfected with human Mesothelin were live immunostained with CoraLite Plus 647 conjugated MSLN VHH (1:500, magenta). 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 CoraLite Plus 647 conjugated MSLN VHH can be performed live or after formaldehyde fixation.



A-431 cells transfected with human Mesothelin were live immunostained with CoraLite Plus 647 conjugated MSLN VHH (1:500, magenta). Nuclei were stained with DAPI (cyan) after cell fixation. Epifluorescence images were acquired with a 20x objective and post-processed. Comment: Immunostaining with CoraLite Plus 647 conjugated MSLN VHH can be performed live or after formaldehyde fixation.