For Research Use Only

anti-TIGIT recombinant VHH, CoraLite® Plus 647



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Catalog Number: CL647-tgt

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Type: Nanobody **Applications:** FC, IF Class: Recombinant RRID: Host: AB_3101926 Alpaca Conjugate: CoraLite® Plus 647 **Molecular Weight:** 14.346 kDa

Description

CL647-tgt targets TIGIT 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

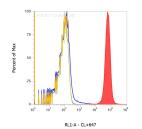
TIGIT (T-cell immunoreceptor with Ig and ITIM domains), also known as VSIG9 or VSTM3, is an immune receptor expressed on T cells, including Treg and memory subsets, as well as on NK cells (PMID: 19011627). It contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT binds to poliovirus domain, a transmembrane domain and an imministrate profit of the control of the c

Storage

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

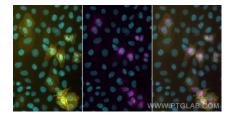
Storage Buffer: 500 mM NaCl, 10 mM HEPES pH 7.0, 5 mM EDTA, 0.09% sodium azide

Selected Validation Data



CHO TIGIT CL647-tgt
CHO TIGIT unstained
CHO parental CL647-tgt
CHO parental unstained

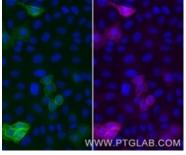
1X10^6 CHO TIGIT stable expressing cells (red) and CHO parental cells were surface stained with 0.25 µg CoraLite® Plus 647 conjugated-TIGIT VHH (CL647-tgt). Cells were not fixed.



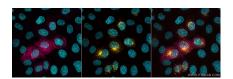
Live HeLa cells transfected with human TIGIT were immunostained with CoraLite® Plus 555 conjugated-TIGIT VHH (CL555-tgt, 1:1000, yellow). After formaldehyde fixation, triton permeabilization and blocking with BSA, the intracellular pool of TIGIT was immunostained with CoraLite® Plus 647 conjugated-TIGIT VHH (CL647-tgt, 1:1000, magenta). Cell nuclei were stained with DAPI (cyan). Epifluorescence images were acquired with a 20x objective and post-processed.



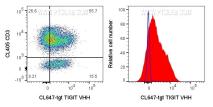
Live HeLa cells transfected with human TIGIT were immunostained with CoraLite® Plus 647 conjugated-TIGIT VHH (CL647-tgt,1:1000, magenta). Cells were fixed and nuclei were stained with DAPI (cyan). Epifluorescence images were acquired and post-processed with Leica Thunder Imager, 40x objective. Note: Immunostaining with CL647-tgt can also be performed after formaldehyde fixation of the cells.



Live HeLa cells transfected with human TIGIT were probed with human recombinant anti-TIGIT IgG. After formaldehyde fixation, the cells were immunostained with CoraLite® Plus 647 conjugated-TIGIT VHH (CL647-tgt,1:1000, magenta) and with anti-human IgG Nano-Secondary (shuGCL488-2, green). Cell nuclei were stained with DAPI (blue). Epifluorescence images were acquired with 20x objective and post-processed.



Live HeLa cells transfected with human TIGIT were immunostained with Coralite® Plus 647 conjugated-TIGIT VHH (CL647-tgt,1:1000, magenta). After formaldehyde fixation, triton permeabilization and blocking with BSA, the intracellular pool of TIGIT was immunostained with Coralite® Plus 555 conjugated-TIGIT VHH (CL555-tgt,1:1000, yellow). Cell nuclei were stained with DAPI (cyan). Epifluorescence images were acquired



Left: 1x10^6 human PBMCs were surface stained with 1ug Coralite® Plus 647 conjugated TIGIT VHH (CL647-tgt) and CL405 CD3 (CL405-65151). Right: 1x10^6 human PBMCs were surface stained with 1ug Coralite® Plus 647 conjugated TIGIT VHH (CL647-tgt) (red) or unstained (blue). Cells were not fixed. Lymphocytes were gated.