

Nano-Secondary® alpaca anti-human IgG, recombinant VHH, CoraLite® Plus 750 [CTK0117]

Product code: shuGCL750-2

Properties

Description	Monovalent, recombinant secondary single domain antibody to human IgG: alpaca monoclonal Nanobody, Fc-specific, CoraLite® Plus 750 conjugated
Product type	Nano-Secondary® Reagent, secondary Nanobody (VHH)
Format	Alpaca single domain antibody, monovalent
Host	Alpaca-derived, recombinantly produced in bacteria
Target/Specificity	Fc-fragment of human IgG (IgG1, IgG2, IgG3, IgG4)
Cross-reactivity	No cross-reactivity to human IgA/IgM/IgE, and goat, guinea pig, mouse, rabbit, rat, and sheep serum. Shows slight cross-reactivity to macaque serum.
Immunogen	Purified human IgG
Clonality	Monoclonal Nanobody
Clones	CTK0117 (VHH1118)
Affinity (Kd)	CTK0117: <i>Kd</i> <10 pM
Conjugate	CoraLite® Plus 750
Excitation / Emission	Excitation max: 755 nm, Emission max: 780 nm
Degree of labeling (DOL)	2 fluorophores per Nanobody
Synonyms	Alpaca single domain antibody, VHH, Nanobody, binding domain of single domain antibody, Nano-antibody
Validation	Application validated for immunofluorescence. Determination of cross-reactivity, sequence, affinity, melting point, and degree of labeling (DOL).
Purity	Recombinantly expressed and purified
Form	Buffered aqueous solution
Concentration	0.5 mg/mL
Storage buffer	10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA Preservative: 0.09 % sodium azide, safety datasheet (SDS): sodium azide
Storage instructions	Shipped at ambient temperature. Store at +4°C short term or -20°C long term. Stable for 1 year at -20°C.
Size	10 µL; 100 µL
RRID	AB_3075305

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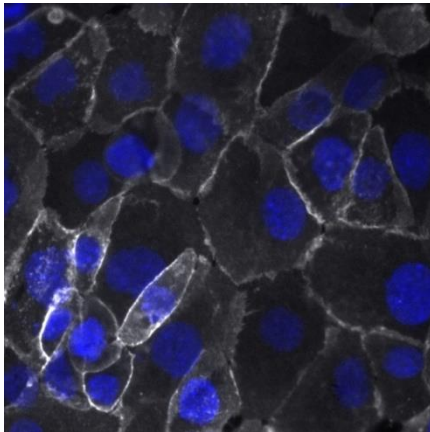
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Applications

Immunofluorescence: recommended dilution range of 1:500-1:1000
Flow cytometry: recommended starting quantity 1µL per 1x10⁶ cells.
The optimal dilution should be determined by the user. A titration range is recommended.

Tested applications

Immunofluorescence



Live A431 cells were incubated with anti-human EGFR (Cetuximab biosimilar) followed by Nano-Secondary® alpaca anti-human IgG, recombinant VHH, CoraLite® Plus 750 [CTK0117] (shuGCL750-2, gray). Cells were fixed and nuclei were stained with DAPI (blue). Epifluorescence images were acquired with a 40x objective and post-processed.

Only for research applications, not for diagnostic or therapeutic use.

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