For Research Use Only

Strep-NanoTrap Agarose

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Catalog Number: qta

Basic Information

Catalog Number:
qta

Applications:
IP, Co-IP

Conjugate:
Agarose beads; ~90 um (cross-linked 4% agarose beads)

Host:
Alpaca

Type:
Nanobody

Class:
Recombinant

Description

The ChromoTek Strep-NanoTrap Agarose consists of an anti-Strep-tag® Nanobody/VHH, which is coupled to agarose beads. It can be used for the immunoprecipitation of proteins fused to the peptide SAWSHPQFEK, also known as Strep-Tag® from cell extracts of various organisms.

Specificity/Target

Binds specifically to the peptide sequence SAWSHPQFEK, also known as Strep-Tag® or Strep-TagII®, fused to a protein of interest at N- or C-terminal position. In addition, this trap binds to the peptide sequence SAWSHPQFEKGGGSGGGSGGSAWSHPQFEK, also known as Twin-Strep-Tag®, fused to a protein of interest at N- or C-terminal position.

Elution buffer

2x SDS-sample buffer (Lämmli), 200 mM glycine pH 2.5 or with SAWSHPQFEK peptide

Affinity (K_D)

480 nM for N-terminal Strep-Tag® and 600 nM for C-terminal Strep-Tag®

Storage

Storage:
Shipped at ambient temperature. Upon receipt store at +4°C. Stable for one year. Do not freeze!

Storage Buffer:
20% ethanol

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

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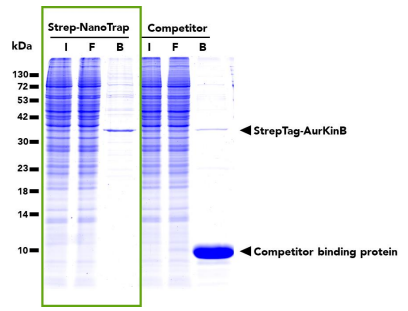
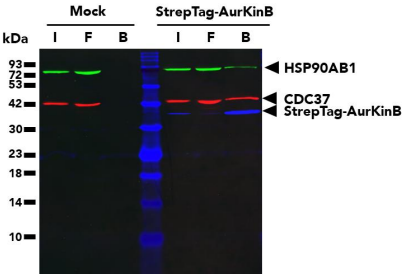
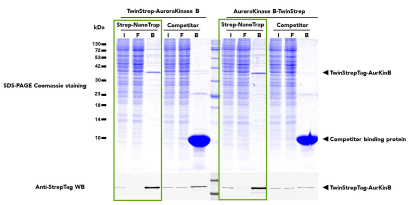
Selected Validation Data



IP of StrepTag-Aurora Kinase B fusion protein from transfected HEK293T cells using either Strep-NanoTrap Agarose (left) or a Competitor Resin (right). The Strep-NanoTrap binds with higher affinity to the strep-tagged protein in comparison to the competitor product. I: Input, F: Flow-Through, B: Bound.



Co-IP using Strep-NanoTrap Agarose followed by multiplexed WB of StrepTag-AurKinB, CDC37, and HSP090AB1 proteins from untransfected (mock) HEK293T cells and HEK293T cells transfected with StrepTag-Aurora Kinase B construct. WB analysis was done on samples from the Input (I), Flow-through (F) and Bound (B) fractions of the IP. For the WB analysis, StrepTag was detected using an Anti-StrepTag DY-649 antibody, CDC37 was detected with an Anti-CDC37 Monoclonal Antibody (66420-1-Ig) labeled with FlexAble CoraLite Plus 750 Antibody Labeling Kit for Mouse IgG2a (KFA044), and HSP90AB1 was detected using an Anti-HSP90AB1 Monoclonal Antibody (67450-1-Ig) labeled with FlexAble CoraLite Plus 488 Antibody Labeling Kit for Mouse IgG2b (KFA061).



IP followed by WB of either N- (left) or C- (right) terminally-linked TwinStrepTag-Aurora Kinase B fusion proteins from transfected HEK293T cells using either Strep-NanoTrap Agarose or a Competitor Resin. The Strep-NanoTrap binds to both N- and C-terminally linked TwinStrepTag proteins with higher affinity than the competitor product. WB analysis additionally indicates that all TwinStrepTagged material is sucessfully eluted in the Bound (B) fraction, with little to no material left in the Flow-Through (F).