For Research Use Only Ubiquitin-Trap Agarose



www.ptglab.com

Catalog Number: uta 1 Publications

Catalog Number: Basic Information

Host: Camelid

Applications: IP, CoIP Type: Nanobody Conjugate: Agarose beads; ~90 um (cross-linked 4% agarose beads) Class: Recombinant

The ChromoTek Ubiquitin-Trap Agarose consists of an anti-Ubiquitin Nanobody/VHH, which is coupled to agarose beads. It can be used for the immunoprecipitation of ubiquitin and ubiquitinylated proteins from mammalian, yeast, and plant cell extracts. **Description**

Binds to monomeric ubiquitin, ubiquitin chains, and ubiquitinylated proteins.

Ubiquitin chains may be linked via lysines; linkages via lysines such as K11, K48 and K63 are compatible with binding by the Specificity/Target

Ubiquitin-Trap (further linkage types also likely to be compatible, but not tested).

Elution buffer 2x SDS-sample buffer (Lammli)

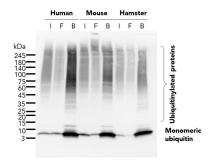
Wash buffer compatibility 2M NaCl, 5 mM DTT, 0 mM β-mercaptoethanol, 5 mM TCEP, 2% NP40, 2% Triton X-100, 0% SDS, 2-3 M Urea

Affinity (K_D) The KD for monomeric ubiquitin is 90 nM. The apparent affinity is even higher for ubiquitin chains due to avidity effects.

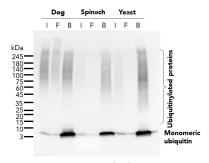
Storage Shipped at ambient temperature. Upon receipt store at +4°C. Stable for one year. Do not freeze!

Storage Buffer: 20% ethanol

Selected Validation Data



The ubiquitin-trap agarose (uta) was used to immunoprecipitate endogenous ubiquitin and ubiquitinylated proteins from human (HEK293T), mouse (C2C12), and hamster (CHO) cell lines treated with MG-132. For each IP, samples of the input lysate (I), non-bound flow-through (F), and bound (B) fractions were analyzed using western blot. Ubiquitin recombinant antibody (80992-1-RR) and HRP-conjugated Affinipure Goat Anti-Rabbit IgG (H+L) (SA00001-2) were used in the western blot analysis.



The ubiquitin-trap agarose (uta) was used to immunoprecipitate endogenous ubiquitin and ubiquitinylated proteins from dog (MDCK) cells, spinach (Spinacia oleracea), and baker's yeast (Saccharomyces cerevisiae) treated with MG-132. For each IP, samples of the input lysate (I), nonbound flow-through (F), and bound (B) fractions were analyzed using western blot. Ubiquitin recombinant antibody (80992-1-RR) and HRP-conjugated Affinipure Goat Anti-Rabbit IgG (H+L) (SA00001-2) were used in the western blot analysis.