

Catalog Number: uta

1 Publications

Basic Information

Catalog Number:

uta

Applications:

IP, CoIP

Conjugate:

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

Host:

Camelid

Type:

Nanobody

Class:

Recombinant

Description

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 ubiquitinated proteins from mammalian, yeast, and plant cell extracts.

Specificity/Target

Binds to monomeric ubiquitin, ubiquitin chains, and ubiquitinated proteins. Ubiquitin chains may be linked via lysines; linkages via lysines such as K11, K48 and K63 are compatible with binding by the Ubiquitin-Trap (further linkage types also likely to be compatible, but not tested).

Elution buffer

2x SDS-sample buffer (Lamml)

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

Storage

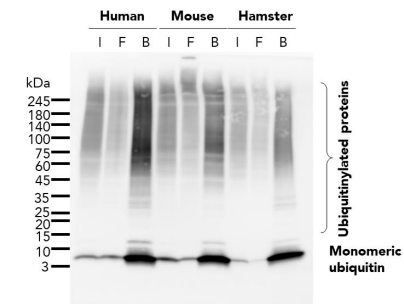
Storage:

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

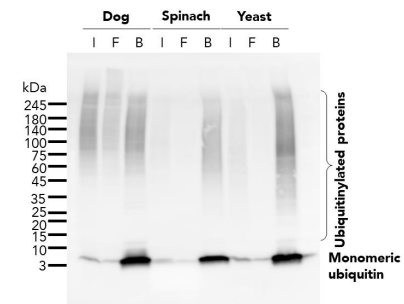
Storage Buffer:

20% ethanol

Selected Validation Data



The ubiquitin-trap agarose (uta) was used to immunoprecipitate endogenous ubiquitin and ubiquitinated 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 ubiquitinated 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), 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.