

Ubiquitin-Trap Agarose, Kit for Immunoprecipitation

Catalog Number: **utak**

Basic Information

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utak

Applications:

IP, CoIP

Conjugate:

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

Host:

Camelid

Type:

Nanobody

Class:

Recombinant

Description

The Ubiquitin-Trap Agarose Kit is a ready-to-use reagent for the IP of ubiquitin and ubiquitinated proteins. It consists of an anti-ubiquitin Nanobody/VHH coupled to agarose beads, along with lysis, wash, and elution buffers to use in the IP process.

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)

Affinity

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

Storage

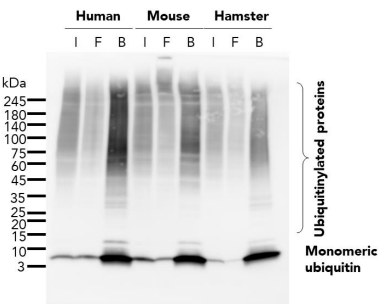
Storage:

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

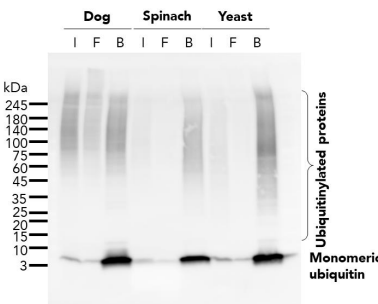
Storage Buffer:

20% ethanol

Selected Validation Data



The ubiquitin-trap agarose kit (utak) 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 kit (utak) 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.