For Research Use Only

Ubiquitin-Trap Magnetic Agarose

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Catalog Number: utma

2 Publications

Basic Information

Catalog Number:
utma

Applications:
IP, CoIP

Conjugate:
Magnetic agarose beads; ~40 um (cross-linked 6% magnetic agarose beads)

Host:
Camelid

Type:
Nanobody

Class:
Recombinant

Description

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

Specificity/Target

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 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

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

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

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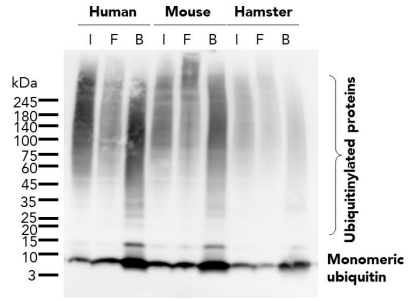
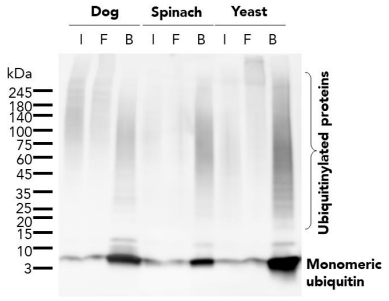
Selected Validation Data



The ubiquitin-trap magnetic agarose (utma) 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 magnetic agarose (utma) 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), 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.