For Research Use Only

# HA-Trap Magnetic Particles M-270

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Catalog Number: atd

1 Publications

## Basic Information

**Catalog Number:**
atd

**Applications:**
IP, Co-IP

**Conjugate:**
Magnetic Particles M-270, size: 2.8 µm

**Host:**
Alpaca

**Type:**
Nanobody

**Class:**
Recombinant

## Description

The ChromoTek HA-Trap Magnetic Particles M-270 consists of an anti-HA-tag Nanobody/VHH, which is coupled to magnetic particles. It can be used for the immunoprecipitation of HA-tagged proteins from cell extracts of various organisms such as humans, mice, dogs, plants, and yeast. It is highly recommended when very large proteins/complexes are being investigated.

## Specificity/Target

Binds specifically to the HA-tag (sequence YPYDVPDYA) fused to a protein of interest at N-, C- or internal position. Please note that the affinity is highest for a C-terminal fusion. There is no cross-reactivity to other common peptide tags such as the His6-tag, FLAG-tag, Spot-Tag, V5-tag, Strep-tag, or C-tag (other tags not tested). Background binding to host cell proteins from a range of organisms such as human, mouse and dog cell lines or yeast and plants is low.

## Elution buffer

2x SDS-sample buffer (Lammli)

## Affinity ($K_D$)

6 nM for C-terminal HA-tags and ca. 180 nM for N-terminal fusions.

## Storage

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

**Storage Buffer:**
PBS with 0.09% sodium azide

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

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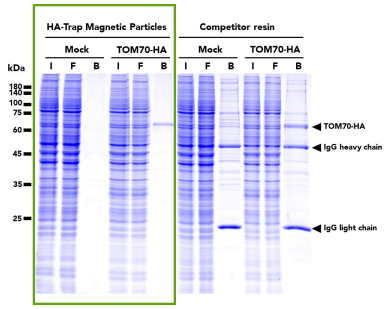
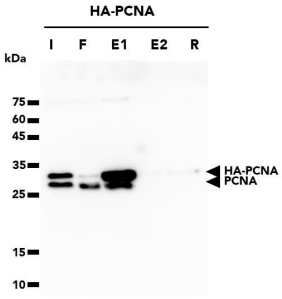
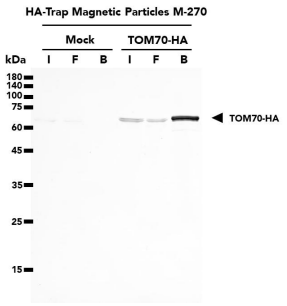
## Selected Validation Data



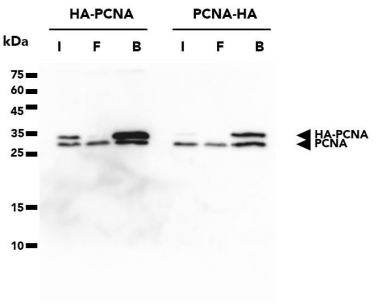

The HA-Trap Magnetic Particles M-270 (left) and a competitor resin (right) were used to immunoprecipitate TOM70-HA fusion protein from either untransfected (mock) HEK293T cells or HEK293T cell transfected with full-length TOM70-HA construct. Immunoprecipitation with HA-Trap Magnetc Particles M-270 results in cleaner, single-band pulldowns without any heavy and light chain contamination. SDS-PAGE analysis was done on samples Bound (B) fract




The HA-Trap Magnetic Particles M-270 was used to immunoprecipitate HA-PCNA fusion protein from HEK293T cells. HA-PCNA protein was released from the trap through a two-step competitive elution utizling HA-peptide (ap). Samples from the Input (I), Flow-Through (F), 1st elution (E1), 2nd elution (E2), and residual (R) fractions were analyzed through WB. PCNA Monoclonal Antibody (60097-1-Ig) and Multi-rAb HRP-Goat Anti-Mouse Recombinant Secondary Antibody (RGAM001) were used in the WB analysis. Note: PCNA forms timers resulting in co-elution of endogenous PCNA proteins with HA-tagged PCNA.




WB detection of TOM70-HA fusion protein following immunoprecipitation with HA-Trap Magnetic Particles M-270 from either untransfected (mock) HEK293T cells or HEK293T cells transfected with full-length TOM70-HA construct. Samples from the Input (I), Flow-Through (F), and Bound (B) fractions were used in the WB analysis. Detection was completed using TOM70 Monoclonal Antibody (66593-1-Ig) and Multi-rAb HRP-Goat Anti-Mouse Recombinant Secondary Antibody (RGAM001).




The HA-Trap Magnetic Particles M-270 was used to immunoprecipitate HA-PCNA and PCNA-HA proteins from transfected HEK293T cells. WB analysis was done on samples from the Input (I), Flow-Through (F), and Bound (B) fractions of the IP using PCNA Monclonal Antibody (60097-1-Ig) and Multi-rAb HRP-Goat Anti-Mouse Recombinant Secondary Antibody (RGAM001). The HA-Trap is succesful in pulling down HA-tagged PCNA regardless of whether the tag is fused to the N- or C-terminal. Note: PCNA forms trimers, resulting in co-elution of endogenous PCNA with HA-tagged PCNA.