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Anti-Myc Tag Magnetic Beads

Catalog No. MB-300

Overview

Product name	Anti-Myc Tag Magnetic Beads
Antibody specificity	Myc Tag
Species reactivity	Species independent
Host / isotype	Mouse / IgG1
Cross reactivity	Not tested
Target antigen	Protein name: MYC proto-oncogene, bHLH transcription factor Gene name: MYC UniProt Accession: P01106 Organism: <i>Homo sapiens</i> (Human)
Background	The Magnetic Beads are optimized for the selective immunoprecipitation and efficient purification of target proteins for diverse research applications. These beads are robustly conjugated to Anti-Myc Tag antibodies, with a functional diameter ranging from 0.5 µm, and are specifically engineered to bind proteins tagged with Myc at either the N-terminus or C-terminus. Ideal for the isolation of Myc-tagged recombinant proteins, these beads offer excellent performance across mammalian, bacterial, and plant-derived proteins.
Bead diameter	30 µm
Form	Subject to solid-liquid separation upon standing; Mix thoroughly to ensure a consistent, homogeneous
Formulation	Supplied as solution in phosphate buffered saline containing 0.1% Tween-20 and 0.02% sodium azide
Shipping, storage and shelf life	Shipped at ambient temperature. Avoid freezing. Upon receipt, * 12 months when stored at 2 to 8 °C

Applications

	Usage per Test (µL)	Note
Immunoprecipitation (IP)	15	

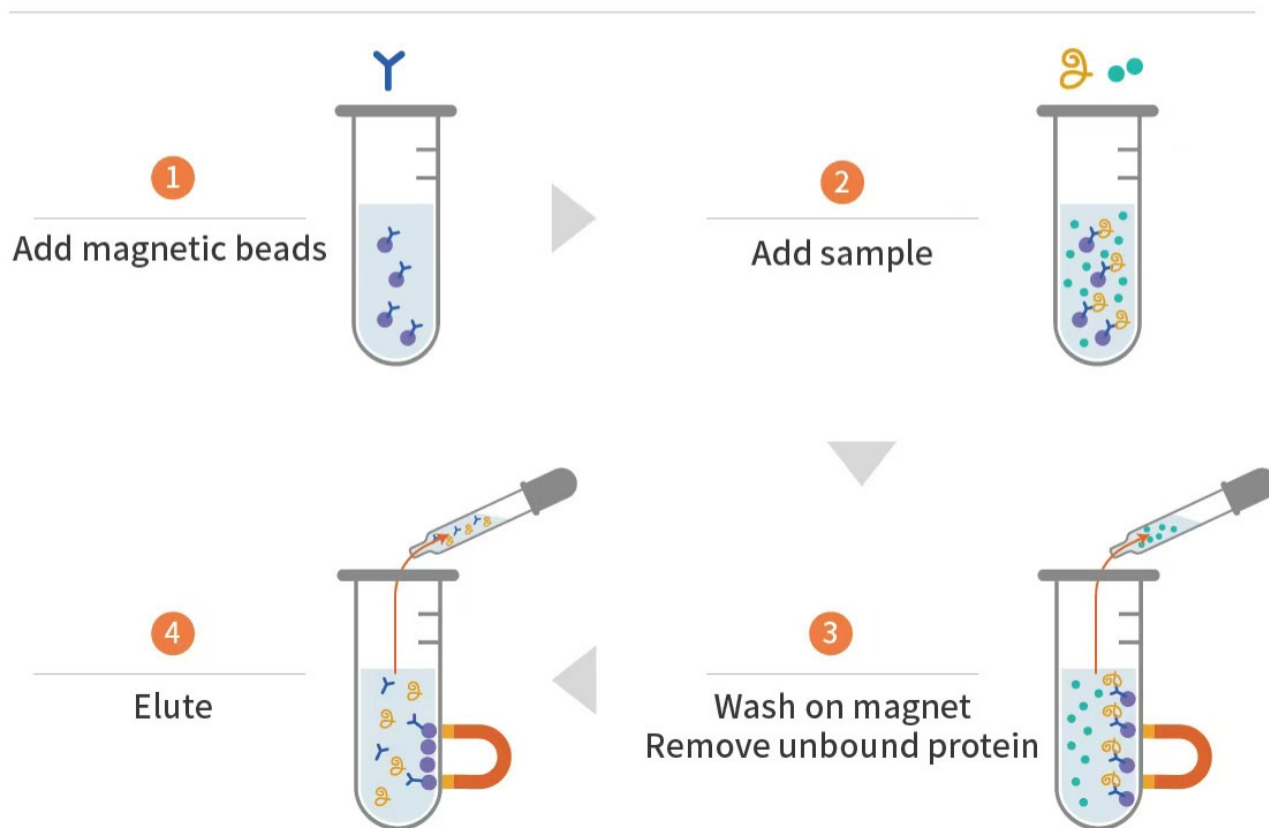
Note:

*The applications shown above have already been verified. This magnetic beads may be suitable for other applications.

*Optimal magnetic beads concentrations for each application should be determined by the user.

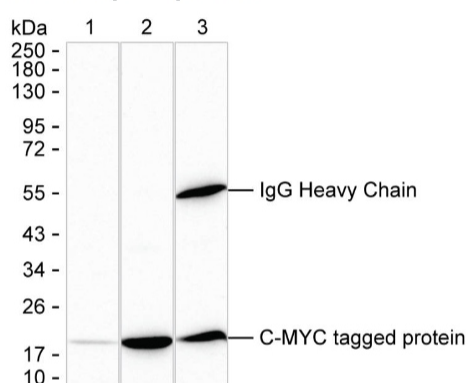
Workflow Diagram

● Magnetic beads Y Antibody Target protein ● Nonspecific protein



Product data

Immunoprecipitation



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Immunoprecipitation analysis of Myc Tag by MB-300.

15 μ L of Anti-Myc Tag Magnetic Beads (MB-300) were pre-washed with cell lysis buffer for 3 times. The beads were then incubated with 200 μ g of cell lysate extracted from HEK-293 transfected with Myc tagged CDA at C-terminus. The supernatant was discarded and beads were washed for 6 times. The beads were boiled with denaturing protein loading buffer for 10 min. The mixture was run on 6-18% SDS-PAGE and blotted onto nitrocellulose membrane. Anti-Myc Tag Antibody (KC-476) was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG (Fc specific) was used as the secondary antibody. Competitor's anti-Myc magnetic beads was used as control.

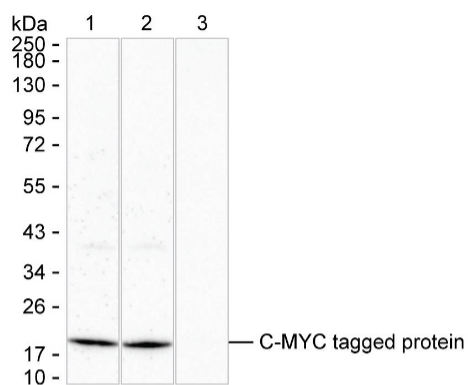
Lane 1: HEK-293 lysate (transfected with Myc tagged CDA (Cat. P60351QCTN) at C-terminus)

Lane 2: Myc tagged protein immunoprecipitated by MB-300 from the same lysate as Lane 1

Lane 3: Myc tagged protein immunoprecipitated by competitor's magnetic beads from the same lysate as Lane 1

Result: Anti-Myc Tag Magnetic Beads (MB-300) can immunoprecipitate Myc Tag with a higher efficiency compared with the competitor's product.

Immunoprecipitation



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Immunoprecipitation analysis of Myc Tag by MB-300.

15 μ L of Anti-Myc Tag Magnetic Beads (MB-300) were pre-washed with cell lysis buffer for 3 times. The beads were then incubated with 200 μ g of cell lysate extracted from HEK-293 transfected with Myc tagged CDA at C-terminus. The supernatant was discarded and beads were washed for 6 times. The beads were eluted twice with 0.1 M acidic glycine buffer (pH2.5). The eluent was boiled with denaturing protein loading buffer for 10 min. The mixture was run on 6-18% SDS-PAGE and blotted onto nitrocellulose membrane. Anti-Myc Tag Antibody (KC-476) was used as the primary antibody and peroxidase conjugated goat anti-mouse IgG (Fc specific) was used as the secondary antibody. Competitor's anti-Myc magnetic beads was used as control.

Lane 1: HEK-293 lysate (transfected with Myc tagged CDA (Cat. P60351QCTN) at C-terminus)

Lane 2: Myc tagged protein immunoprecipitated by MB-300 from the same lysate as Lane 1

Lane 3: Myc tagged protein immunoprecipitated by magnetic beads of competing companies from the same lysate as Lane 1

Result: Anti-Myc Tag Magnetic Beads (MB-300) can immunoprecipitate Myc Tag with a higher efficiency compared with the competitor's product.