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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Email: info@abseabio.com
Website: www.absea.bio

Anti-HLA-C Magnetic Beads

Catalog No. MB-334

Overview

Product name	Anti-HLA-C Magnetic Beads
Antibody specificity	HLA-C(alpha-2 specific)
Species reactivity	Human
Host / isotype	Mouse / IgG1
Cross reactivity	Not tested
Target antigen	Protein name: Major histocompatibility complex, class I, C Gene name: HLA-C UniProt Accession: P10321 Organism: *Homo sapiens* (Human)
Background	The Major Histocompatibility Complex, class I, C (HLA-C) protein is a cell membrane glycoprotein that plays an essential role in immune response by presenting peptides to cytotoxic T lymphocytes and interacting with natural killer (NK) cells through specific receptors like KIR. It consists of a heavy chain and a light beta-2 microglobulin chain, with structural regions encoded by eight exons. HLA-C expression is lower than related molecules HLA-A and HLA-B, regulated by polymorphisms and epigenetics, and its main function is to mediate immune recognition, including antiviral and cancer defenses. HLA-C's interaction with NK cells is crucial for the elimination of harmful cells, which also impacts organ transplant rejection and autoimmune disease modulation. Pathologically, variations in HLA-C are linked to diseases such as psoriasis, alopecia areata, preeclampsia, and certain cancers (e.g., nasopharyngeal, cervical, acute myeloid leukemia). The HLA-C/KIR signaling pathway modulates immune tolerance and cytotoxicity, influencing disease susceptibility and treatment outcomes.
Bead diameter	0.5 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% BSA 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

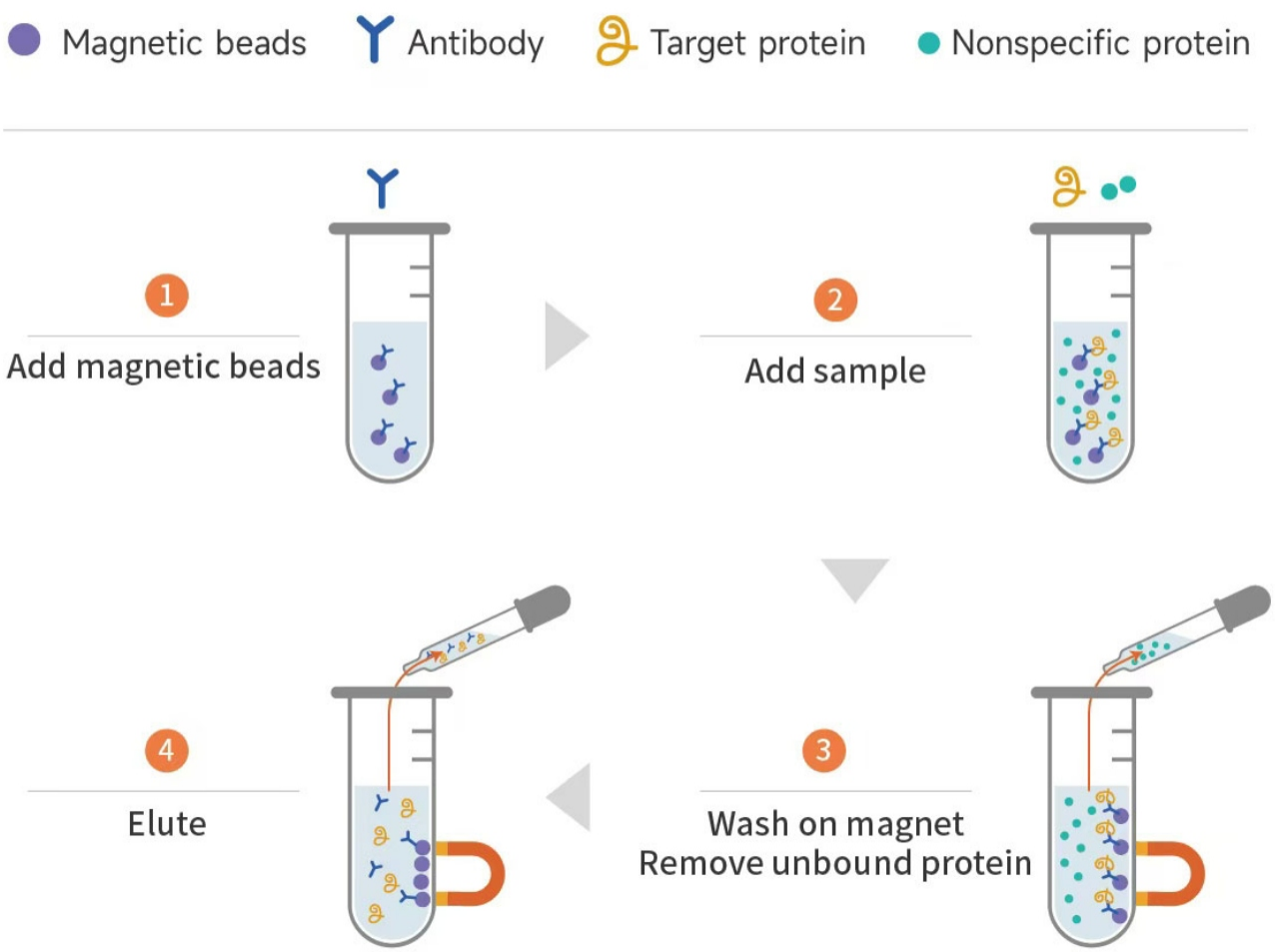
	Usage per Test (μL)	Note
Immunoprecipitation (IP)	50	

Note:

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

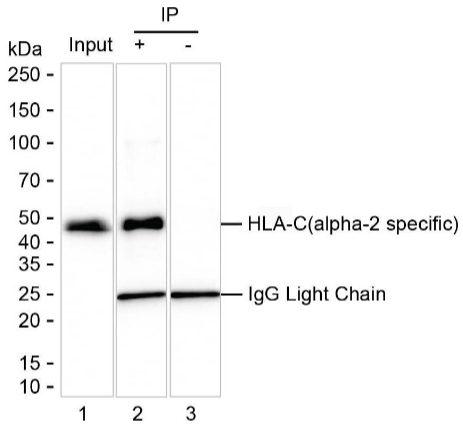
*Optimal magnetic beads concentrations for each application should be determined by the user.

Workflow Diagram



Product data

Immunoprecipitation



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Immunoprecipitation analysis of HLA-C(alpha-2 specific) by MB-334.

50 µL of Anti-HLA-C Magnetic Beads (MB-334) were pre-washed with lysis buffer for 3 times. The beads were then incubated with A-431 lysate containing 200 µg of total protein for immunoprecipitation. 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-HLA-C Magnetic Beads (OAP02125E1) was used as the primary antibody and peroxidase conjugated rabbit anti-mouse IgG (Light chain specific) was used as the secondary antibody. Anti-KLH Magnetic Beads (MB-050) serves as negative control.

Lane 1: A-431 lysate

Lane 2: HLA-C(alpha-2 specific) immunoprecipitated from A-431 lysate by Anti-HLA-C Magnetic Beads (MB-334)

Lane 3: The same as Lane 2 but Anti-KLH Magnetic Beads (MB-050) were used as negative control.

Result: Anti-HLA-C Magnetic Beads (MB-334) can immunoprecipitate HLA-C(alpha-2 specific).