

Methyl Lysine Antibody, Agarose

Catalog #: ICP0588

Product Description

The methylated lysine antibodies are developed with methylated KLH and affinity purified with methylated lysine on agarose. The purified antibodies are covalently immobilized to beaded agarose. The product could be utilized as an affinity matrix for rapid isolation, purification and enrichment of the proteins or peptide with methylated lysine residues, particularly trimethyl- and/or dimethyl-lysine residues.

Formulation

0.5 mL beaded agarose suspended in 1 mL slurry with glycerol.

Antibody Immobilized

10 mg/mL of the methylated lysine antibodies are covalently linked to the agarose beads.

Storage & Stability

Product is stable for 30 days at room temperature. For extended storage, store product at -20°C. Expiration date is one year from date of shipping if stored properly.

Specificity

This antibody matrix selectively captures the peptides and proteins with methylated lysine residues (N-epsilon).

Binding Capacity

Approximately 0.5 mg of methylated histone/mL.

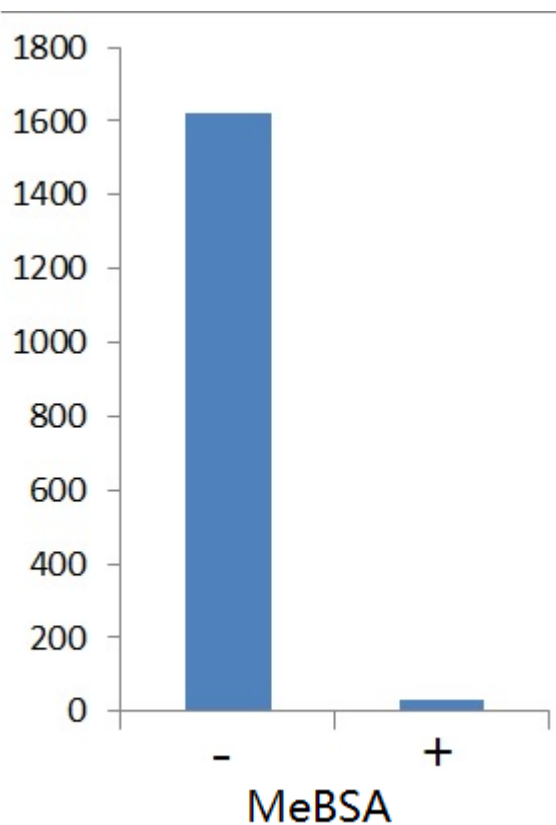
Applications

Rapid isolation, purification and affinity enrichment of peptides or proteins with the methylated lysine residues from mixtures of cell lysates or protease-digested samples.

Scientific Description

Protein methylation is a form of post-translational modification known to regulate many diverse biological processes. Detection, isolation and identification of the methylated protein/peptide is essential in proteomic studies. Affinity chromatography is one of the most efficient and rapid methods to enrich and purify the methylated species for further MS/MS identification.

Sample Data



The ELISA titer (1:1620) of the methylated proteins eluted from 50 μ L of the methyllysine-specific antibody affinity matrix (ICP0588) as detected with anti-methyllysine HRP (ICP0502). Approximately 50 mg of the swine spleen cell lysate were applied to the enrichment. ELSIA signal can be inhibited methylated BSA (MeBSA).

References

1. Biochem Biophys Res Coms. Vol 451 (2), Pages 229-234.

MATERIAL SAFETY DATA SHEET

Article 1 - Product Identification and Use

Product Name: Methylated Lysine Antibody, Agarose

Catalog #: ICP0588

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, agricultural, nor pesticidal applications.

Manufacturer's Name: ImmuneChem Pharmaceuticals Inc.
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EMERGENCY PHONE: 604-453-0169

Article 2 - Hazardous Ingredients

NOT AVAILABLE. We are not aware of any hazards associated with this product or its ingredients, but the chemical, physical, and toxicological properties of this product have not been investigated thoroughly. Observe normal laboratory precautions.

Article 3 - Physical Data

Transparent particles suspended in liquid.

Article 4 - Fire and Explosion Hazard

NOT APPLICABLE

Article 5 - Reactivity Data

- Chemical Stability: Stable under recommended storage conditions.
 - Conditions to avoid: Light.
 - Materials to Avoid: Strong oxidizing agents.
 - Hazardous Products: Formed under fire conditions – Carbon oxides, Hydrogen bromide gas.
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Article 6 – Toxicologically Data

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Article 7 - Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

*****MULTIPLE COMPONENT SPILL OR LEAK PROCEDURES*****

- Wear protective equipment.
 - Absorb on sand or vermiculite and place in closed containers for disposal.
 - Observe all federal, state and local environmental regulations.
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Article 8 - First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
 - In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
 - If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
 - In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.
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Article 9 - Preparation

Prepared By: Hao Xiao

Phone #: 1-604-431-6425

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. ImmuneChem shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

For in vitro research use only. Not recommended or intended for diagnosis of diseases in humans or animals. Do not use in humans or in animals.

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