



Pan Anti-Di-methyllysine Antibody Conjugated Agarose Beads

Cat#: PTM-608

Pack Size: 0.5 mL

Species Reactivity: All species

Product Description: A mixture of high quality rabbit-derived polyclonal antibodies is cross-linked to agarose beads with stable amide linkages. With the combined advantages of different polyclonal antibodies in global proteomic screening of di-methyllysine, this product presents extra ordinary capability to specifically capture the peptides/proteins bearing lysine di-methylated residues.

Formulation: 0.25 mL of drained agarose in 0.5 mL of 50% glycerol slurry (with 1 mg/mL of antibody immobilization).

Binding capacity: Approximately 0.2 mg of lysine- ϵ -di-methylated peptides.

Specificity: With the immobilization of highly specific anti-di-methyllysine antibody, the di-methyllysine antibody agarose beads capture peptides/proteins bearing di-methyllysine residues but do not cross-react with the peptides/proteins bearing structurally similar mono-methyllysine or tri-methyllysine residues.

Application: IAP

*IAP=Immuno-affinity chromatography, Protein/peptide immunoprecipitation for di-methyllysine proteomics;

Scientific Description:

The post-translational ϵ -amino lysine methylation of proteins is an important reversible modification controlling protein activity. The reversible lysine methylation of proteins plays a vital role in the regulation of many cellular processes including chromatin remodeling, gene expression, cell proliferation, etc. Methylation of lysine residues is modulated by specific counteractive enzymes including lysine methylases (KMTs), demethylases (KDMs), histone



methylases (HMTs), and histone demethylases (HDMs), whose pathways have become promising targets for discovery of anti-cancer drugs.

Storage & Stability: Store at -20°C and avoid freeze. Stable for 12 months from date of receipt.

Reference

***Research purposes only. The product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.*