



Pan anti-propionyllysine antibody beaded agarose

Catalog: PTM-202 **Pack Size:** 0.5 mL **Species Reactivity:** All species

Product Description: The rabbit-derived polyclonal anti-propionyllysine antibodies are crosslinked to agarose with stable amide linkages. In the global proteomic screening of lysine propionylation, the product was well utilized as affinity matrix to specifically capture the peptides/proteins bearing propionyllysine residues in all species.

Formulation: 0.5 mL of drained agarose in 1 mL of 50% glycerol slurry (with 4 mg/mL of antibody immobilization).

Binding capacity: Approximately 0.2 mg of lysine propionylated proteins/mL.

Specificity: With the immobilization of highly specific anti-propionyllysine antibody, the propionyllysine antibody beaded agarose selectively captures peptides/proteins bearing propionyllysine residues, but does not cross-react with the peptides/proteins bearing other structurally similar modified residues.

Application: Protein/peptide immunoprecipitation for lysine propionylation proteomics; Immuno-affinity chromatography.

Scientific Description: Propionylation of lysine, structurally similar to lysine acetylation, is a newly identified reversible modification controlling protein activity. The reversible lysine propionylation has been well demonstrated in both prokaryotes and eukaryotes in wide ranges of proteins including histones and non-histone substrates, such as p53. It is speculated that lysine propionylation plays a vital role in the regulation of multiple cellular processes including chromatin dynamics and plasticity and DNA transcriptional regulation by sharing the same regulatory enzymes with lysine acetylation or with unique regulatory enzymes.

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

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