

Spin-Tip PolyMAC-Ti Phosphopeptide Enrichment Kit



Cat. # 707-48
1 Kit (48 tips)

Orders:

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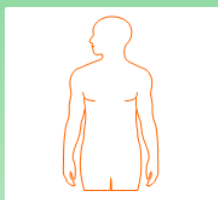
This product is for *in vitro* research use only and is not intended for use in humans or animals.

Introduction.

Due to low stoichiometry of phosphorylation, phosphopeptide enrichment is a critical step for successful mass spectrometry-based phosphoproteomics experiments. PolyMAC offers an efficient and greatly improved method to achieve more complete phosphopeptide enrichment under homogeneous conditions. This highly selective enrichment procedure can be used with majority of the complex samples because it provides optimal specificity toward phosphopeptides.

Kit Performance.

The performance of the PolyMAC kit was evaluated using highly complex lysate samples from different sample origins. Each experiment was a single 60-min LC-MS analysis, and the number of unique phosphopeptides identified and percent enrichment selectivity are reported in the results.

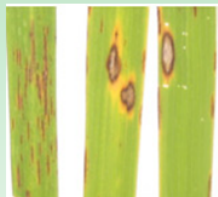


30µg Human B cells lysate

- 8,752 unique phosphopeptides
- 95% enrichment selectivity

100µg *Arabidopsis thaliana* lysate

- 5,497 unique phosphopeptides
- 90% enrichment selectivity



1mg Rice fungus lysate

- 2,974 unique phosphopeptides
- 91% enrichment selectivity

Kit components.

- ✓ 2.5mL of PolyMAC-Ti
- ✓ 20mL of Loading buffer
- ✓ 10mL of Washing buffer 1
- ✓ 10mL of Washing buffer 2
- ✓ 5mL of Elution buffer
- ✓ 48 fritted tips
- ✓ 8 centrifuge adapters

Original publication.

Iliuk AB, Martin VA, Alicie BM, Geahlen RL and Tao WA (2010). In-depth analyses of kinase-dependent tyrosine phosphoproteomes based on metal ion functionalized soluble nanopolymers. *Mol Cell Proteomics*. 9: 2162-72.

[doi: 10.1074/mcp.M110.000091](https://doi.org/10.1074/mcp.M110.000091)