リン酸化翻訳後修飾解析のソリューション

溶液でのリン酸化ペプチド濃縮キット

ユニバーサルなリン酸化蛋白質の検出（キナーゼアッセイ）

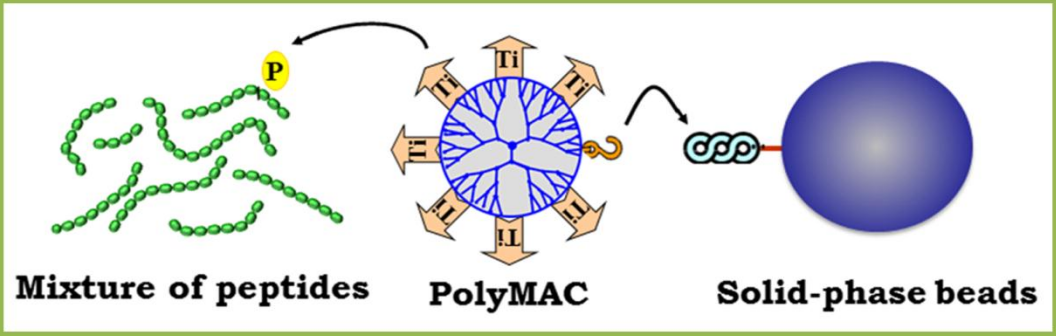
AMR INCORPORATED エーエムアール株式会社

Biosys Technologies, Inc

PRODUCT

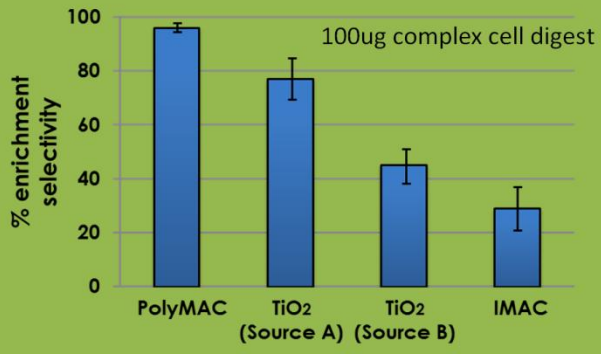
PolyMAC

Highly efficient phosphopeptide enrichment technology

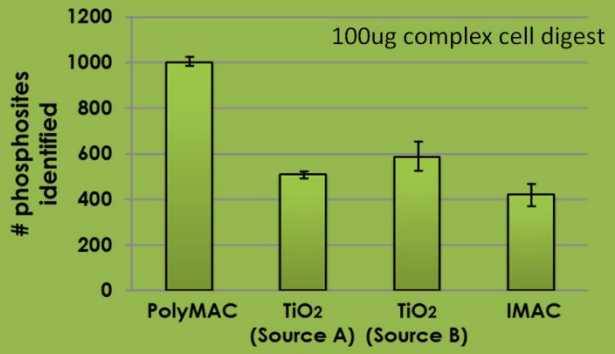


PolyMAC technology (Polymer-based metal ion affinity capture) is based on a **multi-functionalized soluble nanopolymer** (dendrimer) that allows for enhanced enrichment **reproducibility**, **recovery**, and **faster** binding kinetics due to homogeneous reaction environment. Soluble conditions and multi-functionalization of the dendrimer result in:

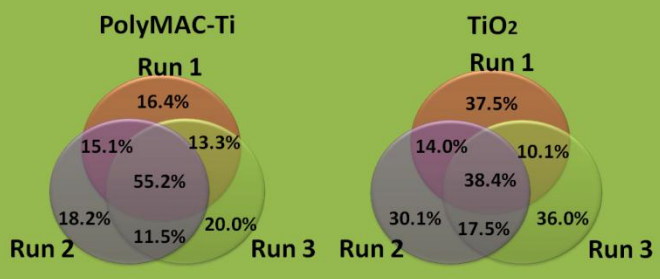
➢ Improved selectivity



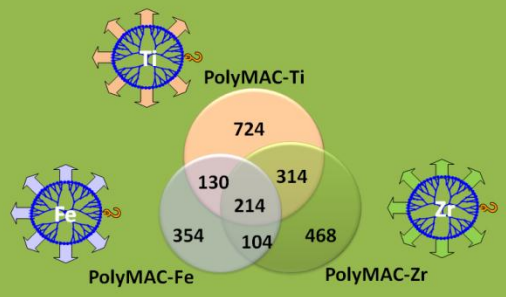
➢ Higher recovery



➢ Better reproducibility



➢ Metal ion complementarity

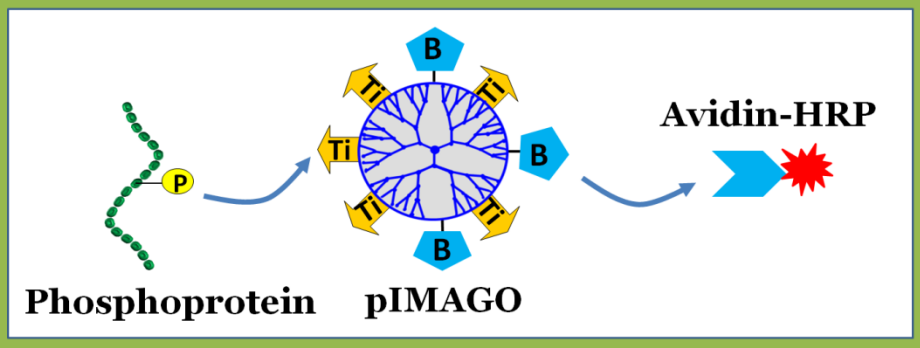


References: - Iliuk, A. *et.al.*, *Mol Cell Proteomics* **2010**, *9*, 2162-2172.
- Xue L. *et.al.*, *PNAS* **2012**, *109*, 5615-5620.

PRODUCT

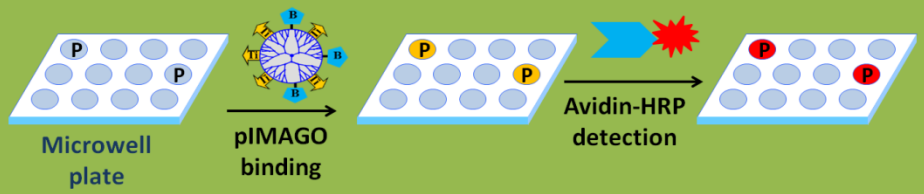
pIMAGO

Universal phosphoprotein detection technology

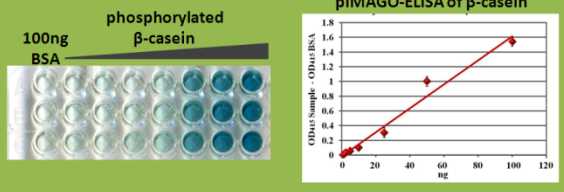


pIMAGO technology (phospho-imaging) is based on a **multi-functionalized soluble nanopolymer** (dendrimer) that allows for highly selective and sensitive universal detection of protein phosphorylation. pIMAGO can be used in single detection or multiplexed applications for different platforms:

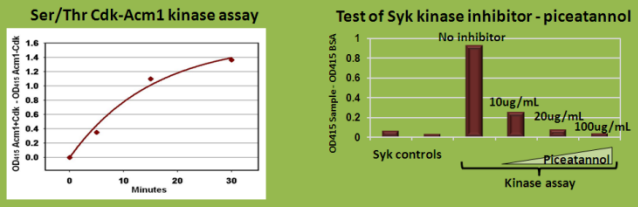
➢ On-plate detection



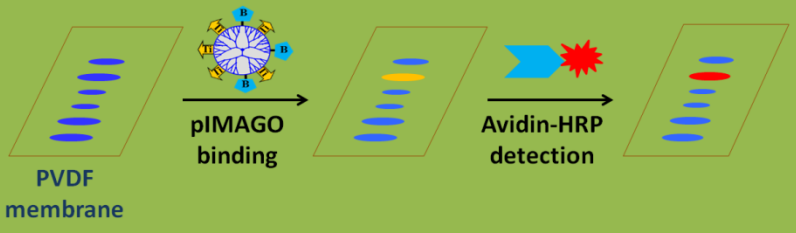
Quantitative capabilities of pIMAGO



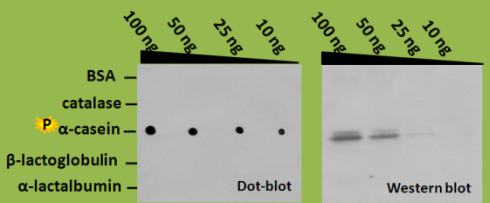
Utility of pIMAGO for *in vitro* kinase assays and inhibitor screening



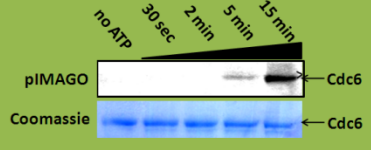
➢ On-membrane detection



pIMAGO detection of 5 protein mixture

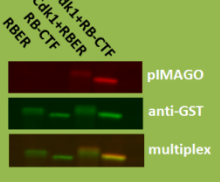


pIMAGO detection of Cdk-Cdc6 serine kinase assay



Multiplexing capability of pIMAGO

Multiplex of Cdk1-RBER and Cdk1-RB-CTF kinase assays



References: - Iliuk, A. *et.al., Anal Chem* **2011**, *83*, 2767-2774.
- Iliuk, A. *et.al., Mol Cell Proteomics* (submitted).

AMR INCORPORATED
エーエムアール株式会社
TEL: (03) 5731-2281 FAX: (03) 5731-2283
Email: marketing@amr-inc.co.jp
Visit: www.amr-inc.co.jp/
Biosys Technologies, Inc.