Phos-tag application data

Quantitative analysis of phosphorylateion by *in vitro* Abl kinase assay ~ Mn²⁺-Phos-tag SDS-PAGE with Laemmli system ~

SAMPLE INFORMATION

		MW (kDa)
Protein	Abltide	-
Protein status	recombinant (Abltide-GST)	28

ELECTROPHORESIS CONDITION

Gel	12.5% polyacrylamide	
Phos-tag conc.	100μM Mn ²⁺ - Phos-tag	
Metal complex		

Visualization	CBB stain / immunoblotting
Antibody	anti-pTyr

ASSAY FLOW

- 1 Abitide phosphorylation with Abl
- 2 Phos-tag electrophoresis
- 3 Quantification by CBB stain and densitometry or immunoblotting

RESULT

- •Mn²⁺-Phos-tag SDS-PAGE has enabled the simultaneouse determination of phospholylated and corresponding dephosphorylated protein in gel.
- •The Mn²⁺-Phos-tag SDS-PAGE can identify the time course ratio of phosphorylated and dephosphorylated proteins in gel.

NOTE

REFERENCE

Phosphate-binding tag, a new tool to visualize phosphorylated proteins. Kinoshita E, Kinoshita-Kikuta E, Takiyama K, Koike T.: *Mol. Cell. Proteomics*, **5**, 749 (2006)

key words: Mn²⁺-Phos-tag, Laemmli, Abl, tyrosine kinase