

Phos-tag application data

Profiling of phosphorylation of intracellular β -catenin
 ~ neutral pH SDS-PAGE with Zn^{2+} -Phos-tag ~

● SAMPLE INFORMATION

		MW (kDa)
Protein	β -catenin (SW480 cell)	85
Protein status	normal	-

● ELECTROPHORESIS CONDITION

Gel	1D: 5.5% polyacrylamide (without Phos-tag) 2D: 6.0% polyacrylamide
Phos-tag conc.	25 μ M
Metal complex	Mn^{2+} or Zn^{2+}

Visualization	immunoblotting
Antibody	anti- β -catenin, anti-p- β -catenin

● ASSAY FLOW

- 1 Prevanadate or forskolin treatment of β -catenin
- 2 Normal SDS-PAGE as first dimension
- 3 Phos-tag SDS-PAGE as second dimension
- 4 Immunoblotting

● RESULT

Zn^{2+} -Phos-tag SDS-PAGE showed better long-term stability than the Mg^{2+} -Phos-tag SDS-PAGE.

● NOTE

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● REFERENCE

Improved Phos-tag SDS-PAGE under neutral pH conditions for advanced protein phosphorylation profiling. Kinoshita E, Kinoshita-Kikuta E. : *Proteomics*, **11**, 319 (2011)

key words : β -catenin, SW480, Zn^{2+} -Phos-tag, Mg^{2+} -Phos-tag, 2D-PAGE