

## Phos-tag application data

Analysis of ataxia telangiectasia-mutated kinase (ATM)  
 ~ Tris-AcOH buffered gel system for high molecular weight protein ~

### ● SAMPLE INFORMATION

		MW (kDa)
Protein	ATM (ataxia telangiectasia-mutated kinase)	350
Protein status	normal	-

### ● ELECTROPHORESIS CONDITION

Gel	3% polyacrylamide + 0.5% agarose (Tris-AcOH gel)
Phos-tag conc.	20μM
Metal complex	Zn <sup>2+</sup>

Visualization	immunoblotting
Antibody	anti-ATM

### ● ASSAY FLOW

- 1 Actinomycin D treatment
- 2 Phos-tag electrophoresis
- 3 Immunoblotting

### ● RESULT

• Neutral-pH gel system buffered with Tris-AcOH in Zn<sup>2+</sup>-Phos-tag SDS-PAGE showed advanced profiling of phosphoproteins with molecular masses of 10-350kDa

### ● NOTE

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### ● REFERENCE

Phos-tag SDS-PAGE systems for phosphorylation profiling of proteins with a wide range of molecular masses under neutral pH conditions. Kinoshita E, Kinoshita-Kikuta E, Koike T. : *Proteomics*, **12**, 192 (2012)

key words : ATM, Tris-AcOH, Zn<sup>2+</sup>-Phos-tag, HMW