Anti-Gcn5p antibody

Immuned Animal: Rabbit

Polyclonal antiserum

62-003 50 μl

SAGA (Spt-Ada-Gen5 histone acetyltransferase complex) is a histoneacetylase complex which has Gcn5p as catalyst subunit and functions overlapping with the fundamental transcription factor TFIID which has Taf1p as catalyst subunit. However, SAGA and TFIID have different allotment and each accomplishes the important role in the transcription for Housekeeping gene group and Stress Responding gene group. Also, SAGA is a gigantic protein complex which is composed of Ada protein group (5 kinds), TBP related protein group (4 kinds), TAF protein group (5 kinds that also pertain to TFIID), and other protein groups (>6 kinds). As its molecular function, there is the chemical modification of histone, or the recruitment by direct interaction of transcription regulating factor on DNA, or the control of transcription starting reaction by TBP. Gcn5p that show histoneacetylase activity is one kind of the above-mentioned Ada protein group and in the case of budding yeast it is composed of 439 amino acid recidues (aa).

The product is prepared by immunizing rabbit with recombinant protein which was over-expressed in *E. coli* with a plasmid carrying the N terminal domain (1-300aa) of Gcn5p protein which is coded on the GCN5 gene of budding yeast, and purified by chromatography.

Using the product as antiserum in Western blotting, the band of 54 kD pertaining to Gcn5p was obtained from the extract solution of budding cells.

Usage

1) It can be used in Western blotting or ELISA for the detection and titration of budding yeast Gcn5p.

Specification

Form: 0.1% sodium azide added to the antiserum.

Storage: 4℃

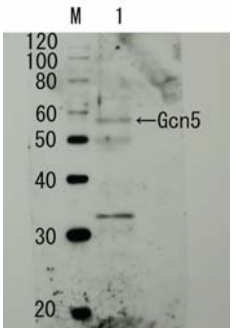

Fig. 1 Detection of Gcn5p by Western blotting using the Gcn5p antibody.
Lane 1, Extract of budding yeast.
The antiserum was diluted 5000 fold before use.