Anti-Gcn5p (*S. cerevisiae*) antibody, rabbit serum

Product code	62-003
Size	100 µl
Storage	Store at 4℃ for short term. For long term storage store at -20℃. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.1% sodium azide
Purity	Rabbit antiserum
Immunogen	Recombinant Gcn5 protein (His-tagged 1-300 amino acids)
Isotype	Rabbit IgG
Reactivity	*S. cerevisiae* Gcn5 protein
Special notes	N/A
Application	Western blotting. Not tested for other applications
Background	AGA (Spt-Ada-Gen5 histone acetyltransferase complex) is a histone acetylase complex which has Gcn5p as a catalyst subunit and has functions overlapping with the fundamental transcription factor TFIID which has Taf1p as a catalyst subunit. However, SAGA and TFIID have different allotments 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). It has the molecular functions such as chemical modification of histone, recruitment by direct interaction of transcription regulating factor on DNA, and control of transcription starting reaction by TBP. **Gcn5p** that shows histoneacetylase activity is one of the proteins belonging to the above-mentioned Ada protein group and it is composed of 439 amino acid recidues with molecular mass of 51 kDa in the case of budding yeast.
Data Link	SGD GCN5/YGR252W UniProtKB Q03330 S.cerevisiae Gcn5

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 62-003 Anti-Gcn5p (*S. cerevisiae*) antibody, rabbit serum

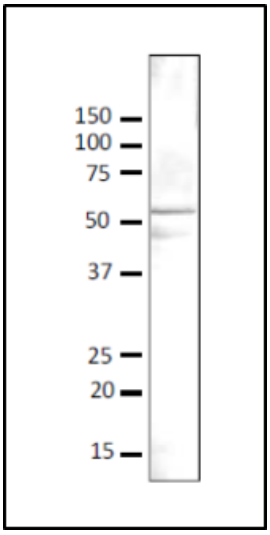


Fig.1 Detection of Gcn5 protein in crude lysate of *S. cerevisiae* strain BY4741 by western blotting with anti-Gcn5 antibody.

Anti-Gcn5 antibody was used at 1/500 dilution and 2nd antibody, goat anti-rabbit IgG antibody conjugated with HRP, was used at 1/5,000 dilution. Signal enhancer, "CanGet Signal" (Toyobo, Osaka), was used. Numbers on the left are positions of protein bands in kDa. Molecular mass of Gcn5 is 51 kDa.

References:

1.Grant PA *et al.* "Yeast Gcn5 functions in two multisubunit complexes to acetylate nucleosomal histones: characterization of an Ada complex and the SAGA (Spt/Ada) complex." *Genes Dev.* **11**: 1640-1650 (1997) PMID: 9224714

2. Syntichaki P *et al.* "The Gcn5.Ada complex potentiates the histone acetyltransferase activity of Gcn5." *J. Biol. Chem.* **273**: 24414-24419 (1998) PMID: 9733731

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