BACKGROUND

The GAL4 protein of Saccharomyces cerevisiae is one of the most thoroughly characterized transcriptional activators. Since the N-terminal 147 amino acid residues of GAL4 are sufficient to mediate specific and strong binding to DNA, but are incapable of efficient transcriptional activation, this protein fragment has frequently been used to confer specific DNA binding in experiments examining transcriptional activation functions of heterologous proteins. This approach is facilitated by the finding that higher eukaryotes lack endogenous proteins that enhance transcription from the consensus GAL4-binding site. Fusions between GAL4 (amino acids 1-147) and activating domains from a variety of transcriptional regulatory proteins can activate transcription in yeast, plant, insects and mammalian cells. These findings have stimulated the development of a unique "two-hybrid" system using GAL4 fusions in yeast to identify specific protein-protein interactions.

REFERENCES


SOURCE

GAL4-TA (C-10) is a mouse monoclonal antibody raised against amino acids 768-881 mapping within the acidic activator domain of GAL4 (GAL4-TA).

PRODUCT

Each vial contains 200 µg IgG2b in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-1663X, 200 µg/0.1 ml.

GAL4-TA (C-10) is available conjugated to agarose (sc-1663AC), 500 µg/0.25 ml agarose in 1 ml, for IP; and to HRP (sc-1663HRP), 200 µg/ml, for WB, IHC(P) and ELISA.

In addition, GAL4-TA (C-10) is available conjugated to biotin (sc-1663B), 200 µg/ml, for WB, IHC(P) and ELISA.

APPLICATIONS

GAL4-TA (C-10) is recommended for detection of GAL4-TA by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

GAL4-TA (C-10) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

SELECT PRODUCT CITATIONS