SANTA CRUZ BIOTECHNOLOGY, INC.

Max (d1-160): sc-28209

BACKGROUND

Myc proto-oncogenes are involved in cell proliferation, apoptosis, differentiation, and neoplasia. Myc acts through dimerization with Max to bind DNA and activate transcription. Homologs of the myc and max genes from the fruit fly *Drosophila melanogaster* and their protein products (dMyc and dMax) heterodimerize and recognize the same DNA sequence as their vertebrate homologs, and activate transcription. *Drosophila melanogaster* is a proven and effective model for studying developmental and cellular processes common to higher eukaryotes. Approximately 13,600 genes have been elucidated from more than 120 megabases of euchromatin, and they are organized among the chromosomes 2, 3, 4, X and Y, with the Y chromosome being predominately heterochromatic. Many of the proteins in *Drosophila* are structurally and functionally similar across species, as are the pathways involved in transducing intracellular signaling.

REFERENCES

1. Gallant, P., Shiio, Y., Cheng, P.F., Parkhurst, S.M. and Eisenman, R.N. 1996. Myc and Max homologs in *Drosophila*. Science 274: 1523-1527.
2. Adams, M.D., Celniker, S.E., Holt, R.A., Evans, C.A., Gocayne, J.D., Amanatides, P.G., Scherer, S.E., Li, P.W., Hoskins, R.A., Galle, R.F., George, R.A., Lewis, S.E., Richards, S., Ashburner, M., Henderson, S.N., Sutton, G.G., Wortman, J.R., Yandell, M.D., Zhang, Q., et al. 2000. The genome sequence of *Drosophila melanogaster*. Science 287: 2185-2195.
3. Orian, A., van Steensel, B., Delrow, J., Bussemaker, H.J., Li, L., Sawado, T., Williams, E., Loo, L.W., Cowley, S.M., Yost, C., Pierce, S., Edgar, B.A., Parkhurst, S.M. and Eisenman, R.N. 2003. Genomic binding by the *Drosophila* Myc, Max, Mad/Mnt transcription factor network. Genes Dev. 17: 1101-1114.
4. Grinberg, A.V., Hu, C.D. and Kerppola, T.K. 2004. Visualization of Myc/Max/Mad family dimers and the competition for dimerization in living cells. Mol. Cell. Biol. 24: 4294-4308.
5. Atchley, W.R. and Fernandes, A.D. 2005. Sequence signatures and the probabilistic identification of proteins in the Myc-Max-Mad network. Proc. Natl. Acad. Sci. USA 102: 6401-6406.
6. Walker, W., Zhou, Z.Q., Ota, S., Wynshaw-Boris, A. and Hurlin, P.J. 2005. Mnt-Max to Myc-Max complex switching regulates cell cycle entry. J. Cell Biol. 169: 405-413.

SOURCE

Max (d1-160) is a rabbit polyclonal antibody raised against amino acids 1-160 of Max of *Drosophila melanogaster* origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

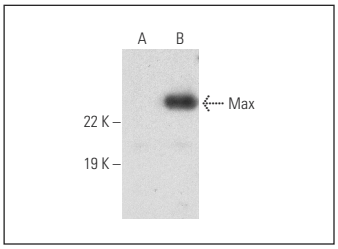
Max (d1-160) is recommended for detection of Max of *Drosophila melanogaster* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Max: 21 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Max (d1-160): sc-28209. Western blot analysis of Max expression in non-transfected: sc-117752 (**A**) and human Max transfected: sc-114184 (**B**) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.