SANTA CRUZ BIOTECHNOLOGY, INC.

Daxx (6D345): sc-70952

BACKGROUND

Activation of the cell surface receptor FAS by FAS ligand leads to the initiation of apoptosis, a process necessary for the regulation of the immune system and tissue homeostasis. FAS-mediated apoptosis appears to involve a number of divergent and overlapping pathways. Daxx appears to be a central component of a FAS-mediated apoptotic pathway involving the activation of Jun N-terminal kinase (JNK). Although Daxx itself does not contain a death domain, it specifically binds to the death domain of FAS. Overexpression of Daxx activates the JNK pathway and enhances FAS-mediated apoptosis. The Daxx apoptotic pathway acts cooperatively with but is distinct from the FAS-mediated pathway that involves interactions between the death domain-containing protein FADD and the cysteine protease FLICE. Unlike the FAS-FADD-FLICE pathway, the Daxx pathway is sensitive to the apoptotic inhibitor protein Bcl-2.

REFERENCES

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4. Boldin, M.P., Goncharov, T., Goltsev, Y. and Wallach, D. 1996. Involvement of MACH, a novel MORT1/FADD-interacting protease, in FAS/APO-1- and TNF receptor-induced cell death. Cell 85: 803-815.
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8. Kiriakidou, M., Driscoll, D.A., Lopez-Guisa, J.M. and Strauss, J.F., 3rd. 1997. Cloning and expression of primate Daxx cDNAs and mapping of the human gene to chromosome 6p21.3 in the MHC region. DNA Cell Biol. 16: 1289-1298.
9. Park, J., Lee, J.H., La, M., Jang, M.J., Chae, G.W., Kim, S.B., Tak, H., Jung, Y., Byun, B., Ahn, J.K. and Joe, C.O. 2007. Inhibition of NFκB acetylation and its transcriptional activity by Daxx. J. Mol. Biol. 368: 388-397.

CHROMOSOMAL LOCATION

Genetic locus: DAXX (human) mapping to 6p21.32.

SOURCE

Daxx (6D345) is a mouse monoclonal antibody raised against amino acids 558-740 of Daxx of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

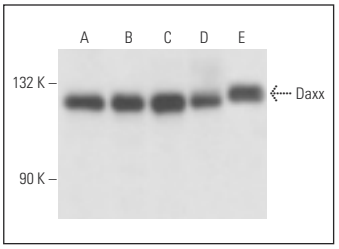
Daxx (6D345) is recommended for detection of Daxx of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Daxx siRNA (h): sc-35178, Daxx shRNA Plasmid (h): sc-35178-SH and Daxx shRNA (h) Lentiviral Particles: sc-35178-V.

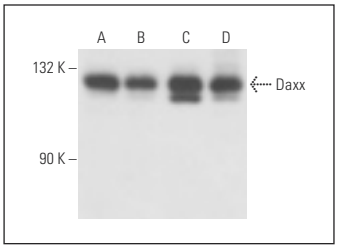
Molecular Weight of Daxx: 120 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, MOLT-4 cell lysate: sc-2233 or Ramos cell lysate: sc-2216.

DATA



Daxx (6D345): sc-70952. Western blot analysis of Daxx expression in HeLa (**A**), MOLT-4 (**B**), Ramos (**C**), K-562 (**D**) and Raji (**E**) whole cell lysates.



Daxx (6D345): sc-70952. Western blot analysis of Daxx expression in HeLa (**A**), MOLT-4 (**B**), Ramos (**C**) and K-562 (**D**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Hirano, S., Udagawa, O., Kobayashi, Y. and Kato, A. 2018. Solubility changes of promyelocytic leukemia (PML) and SUMO monomers and dynamics of PML nuclear body proteins in arsenite-treated cells. Toxicol. Appl. Pharmacol. 360: 150-159.

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.

CONJUGATES

See **Daxx (H-7): sc-8043** for Daxx antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.