

Daxx (H-7): sc-8043

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.

CHROMOSOMAL LOCATION

Genetic locus: DAXX (human) mapping to 6p21.32; Daxx (mouse) mapping to 17 B1.

SOURCE

Daxx (H-7) is a mouse monoclonal antibody raised against amino acids 627-739 of Daxx of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Daxx (H-7) is available conjugated to agarose (sc-8043 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-8043 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-8043 PE), fluorescein (sc-8043 FITC), Alexa Fluor® 488 (sc-8043 AF488), Alexa Fluor® 546 (sc-8043 AF546), Alexa Fluor® 594 (sc-8043 AF594) or Alexa Fluor® 647 (sc-8043 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-8043 AF680) or Alexa Fluor® 790 (sc-8043 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Daxx (H-7) is recommended for detection of Daxx of mouse, rat and 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)], 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).

Suitable for use as control antibody for Daxx siRNA (h): sc-35178, Daxx siRNA (m): sc-35177, Daxx shRNA Plasmid (h): sc-35178-SH, Daxx shRNA Plasmid (m): sc-35177-SH, Daxx shRNA (h) Lentiviral Particles: sc-35178-V and Daxx shRNA (m) Lentiviral Particles: sc-35177-V.

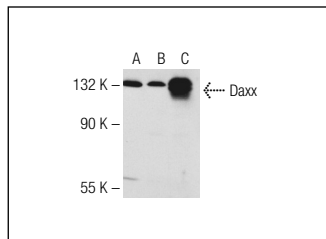
Molecular Weight of Daxx: 120 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211, MOLT-4 cell lysate: sc-2233 or Ramos cell lysate: sc-2216.

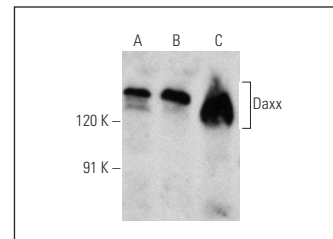
STORAGE

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

DATA



Daxx (H-7): sc-8043. Western blot analysis of Daxx expression in MOLT-4 (A), Ramos (B) and RAW 264.7 (C) whole cell lysates.



Daxx (H-7): sc-8043. Western blot analysis of Daxx expression in BJAB (A), Jurkat (B) and TK-1 (C) whole cell lysates.

SELECT PRODUCT CITATIONS

- Zhong, S., et al. 2000. Role of SUMO-1-modified PML in nuclear body formation. *Blood* 95: 2748-2752.
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- Hofmann, T.G., et al. 2003. HIPK2 regulates transforming growth factor-β-induced c-Jun NH₂-terminal kinase activation and apoptosis in human hepatoma cells. *Cancer Res.* 63: 8271-8277.
- Muromoto, R., et al. 2004. Physical and functional interactions between Daxx and DNA methyltransferase 1-associated protein, DMAP1. *J. Immunol.* 172: 2985-2993.
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- Morales, A., et al. 2008. Differential expression of steroidogenic factors 1 and 2, cytochrome p450_{scc}, and steroidogenic acute regulatory protein in human pancreas. *Pancreas* 37: 165-169.
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- Chelh, I., et al. 2011. Myostatin inactivation induces a similar muscle molecular signature in double-muscling cattle as in mice. *Animal* 5: 278-286.
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- Iwase, S., et al. 2011. ATRX ADD domain links an atypical histone methylation recognition mechanism to human mental-retardation syndrome. *Nat. Struct. Mol. Biol.* 18: 769-776.

RESEARCH USE

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