

Daxx (C-20): sc-7000

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 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Daxx of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-7000 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Daxx (C-20) 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).

Daxx (C-20) is also recommended for detection of Daxx in additional species, including equine, canine, bovine and porcine.

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.

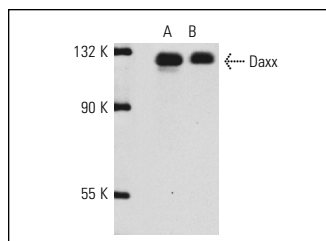
Molecular Weight of Daxx: 120 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, MOLT-4 cell lysate: sc-2233 or Ramos cell lysate: sc-2216.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Daxx (C-20): sc-7000. Western blot analysis of Daxx expression in MOLT-4 (A) and Ramos (B) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Bizik, J., et al. 2004. Cell-cell contacts trigger programmed necrosis and induce cyclooxygenase-2 expression. *Cell Death Differ.* 11: 183-195.
2. Alexandrov, P.N., et al. 2005. Synergistic effects of iron and aluminum on stress-related gene expression in primary human neural cells. *J. Alzheimers Dis.* 8: 117-127.
3. Cui, J.G., et al. 2007. Expression of inflammatory genes in the primary visual cortex of late-stage Alzheimer's disease. *Neuroreport* 18: 115-119.
4. Sarkari, F., et al. 2011. The herpesvirus associated ubiquitin specific protease, USP7, is a negative regulator of PML proteins and PML nuclear bodies. *PLoS ONE* 6: e16598.
5. Alexandrov, P.N., et al. 2011. Retinal amyloid peptides and complement factor H in transgenic models of Alzheimer's disease. *Neuroreport* 22: 623-627.

RESEARCH USE

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



Try **Daxx (H-7): sc-8043** or **Daxx (DAXX-01): sc-51586**, our highly recommended monoclonal alternatives to Daxx (C-20). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Daxx (H-7): sc-8043**.