Revision 1

#4533 Store at -20C

Daxx (25C12) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H M R	Endogenous	110	Rabbit IgG	#Q9UER7	1616

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunofluorescence (Immunocytochemistry)	1:25

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Daxx (25C12) Rabbit mAb detects endogenous levels of total Daxx protein. While Daxx has a calculated MW of 81 kDa, it has been shown to run at an apparent MW of 110 kDa at least in part due to post-translational hyper-phosphorylation (5).

Species predicted to react based on 100% sequence homology:

Monkey, Bovine, Dog

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Gln255 of Daxx.

Background

Daxx is a ubiquitously expressed protein that was originally identified through a yeast two-hybrid screen as an interactor with the cytoplasmic domain of Fas. It was found to enhance Fas-mediated apoptosis and activate the JNK pathway (1). However, additional studies have revealed that Daxx is actually a nuclear protein localizing to promyelocytic leukemia oncogenic domains (PODs) (2,3). Nuclear interactions have since been observed with CENP-C (4), Pax3 (5), DNA methyltransferase I (6) and chromatin-associated proteins, including histone deacetylase II, H2A, H2B, H3, H4 and Dek (5). Roles for Daxx have been suggested in transcriptional repression and cell cycle control. Loss of Daxx in mice leads to embryonic lethality with extensive developmental apoptosis, suggesting a role for Daxx directly or indirectly in suppressing cell death (5). Furthermore, inhibition of Daxx expression using RNAi has confirmed Daxx to be anti-apoptotic and to repress transcriptional activity of targets including NF-κB and E2F-1 (7).

Background References

1. Yang, X. et al. (1997) *Cell* 89, 1067-76.
2. Torii, S. et al. (1999) *EMBO J* 18, 6037-49.
3. Li, H. et al. (2000) *Mol Cell Biol* 20, 1784-96.
4. Pluta, A.F. et al. (1998) *J Cell Sci* 111 (Pt 14), 2029-41.
5. Hollenbach, A.D. et al. (1999) *EMBO J* 18, 3702-11.
6. Michaelson, J.S. et al. (1999) *Genes Dev* 13, 1918-23.
7. Michaelson, J.S. and Leder, P. (2003) *J Cell Sci* 116, 345-52.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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