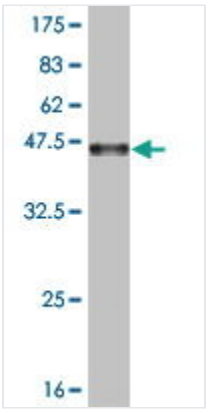
# DAXX Antibody – Mouse Monoclonal

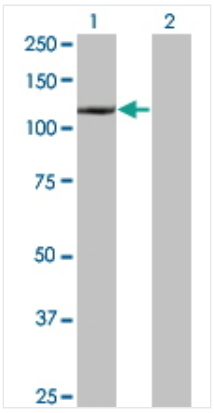
## PRODUCT OVERVIEW

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| **Product Name** | DAXX, Monoclonal Antibody |
| **Full Product Name** | DAXX (Death Domain-associated Protein 6, Daxx, hDaxx, Fas Death Domain-associated Protein, ETS1 associated Protein 1, EAP1, BING2, DAP6) (Biotin) |
| **Product Gene Name** | anti-DAXX antibody |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b,k |
| **Clone Number** | 4C2 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human DAXX. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions ca be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 81kDa |
| **OMIM** | 603186 |
| **3D Structure** | ModBase 3D Structure for Q9UER7 |
| **Immunogen** | Partial recombinant corresponding to aa561-660 from human DAXX (NP_001341) with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | SPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTVLENGAGMVSSTSFNGGVSPHNWGDSGPPCKKSRKEKKQTGSGPLGNSYVERQRSVHEKN |
| **Conjugate** | Biotin |
| **Product Categories/Family for anti-DAXX antibody** | Antibodies; Apoptosis |
| **Applications Tested/Suitable for anti-DAXX antibody** | ELISA (EIA), Immunofluorescence (IF), Western Blot (WB) |
| **Application Notes for anti-DAXX antibody** | IF: 10ug/ml<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-DAXX antibody** | MBS6141469 is an antibody targeting DAXX. Also known as DAXX (Death Domain-associated Protein 6, Daxx, hDaxx, Fas Death Domain-associated Protein, ETS1 associated Protein 1, EAP1, BING2, DAP6) (Biotin). Reactive in Human. Host: Mouse. |

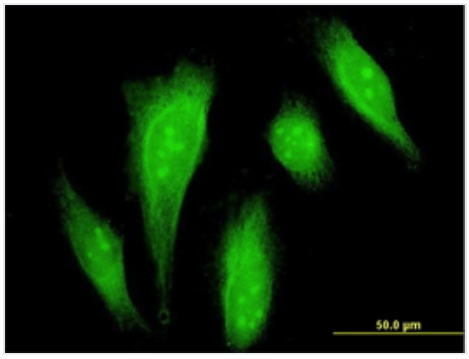
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| **Other Notes** | Small volumes of anti-DAXX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |



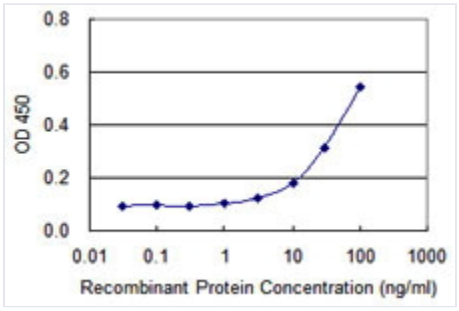

**Western Blot (WB) of anti-DAXX antibody**
Western Blot detection against Immunogen (36.74kD).



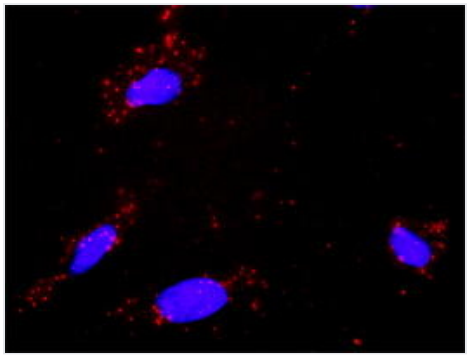

**Western Blot (WB) of anti-DAXX antibody**
Western Blot analysis of DAXX expression in transfected 293T cell line by DAXX monoclonal antibody. Lane 1: DAXX transfected lysate (81.373kD). Lane 2: Non-transfected lysate.




**Immunofluorescence (IF) of anti-DAXX antibody**
Immunofluorescence of monoclonal antibody to DAXX on HeLa cell. [antibody concentration 10ug/ml].




**Testing Data of anti-DAXX antibody**
Detection limit for recombinant GST tagged DAXX is ~1ng/ml as a capture antibody.



**Testing Data of anti-DAXX antibody**
Proximity Ligation Analysis (PLA) of protein-protein interactions between TGFB1 and DAXX HeLa cells were stained with TGFB1 rabbit purified polyclonal 1:1200 and DAXX mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DAXX. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 215422388 |
| **NCBI GeneID** | 1616 |

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| **NCBI Accession #** | NP_001341 |
| **UniProt Primary Accession #** | Q9UER7 |
| **UniProt Related Accession #** | Q5STR5; Q9UER7 |
| **GenBank Nucleotide #** | NM_001350 |
| **NCBI Official Full Name** | death domain-associated protein 6 isoform a |
| **NCBI Official Synonym Full Names** | death domain associated protein |
| **NCBI Official Symbol** | DAXX |
| **NCBI Official Synonym Symbols** | DAP6; EAP1; BING2; SMIM40 |
| **UniProt Protein Name** | Death domain-associated protein 6 |
| **UniProt Synonym Protein Names** | Daxx; hDaxx; ETS1-associated protein 1; EAP1; Fas death domain-associated protein |
| **Protein Family** | Death domain-associated protein |
| **UniProt Gene Name** | DAXX |
| **UniProt Synonym Gene Names** | BING2; DAP6; hDaxx; EAP1 |
| **UniProt Entry Name** | DAXX_HUMAN |
| **NCBI Protein Information** | death domain-associated protein 6 |
| **NCBI Summary for DAXX** | This gene encodes a multifunctional protein that resides in multiple locations in the nucleus and in the cytoplasm. It interacts with a wide variety of proteins, such as apoptosis antigen Fas, centromere protein C, and transcription factor erythroblastosis virus E26 oncogene homolog 1. In the nucleus, the encoded protein functions as a potent transcription repressor that binds to sumoylated transcription factors. Its repression can be relieved by the sequestration of this protein into promyelocytic leukemia nuclear bodies or nucleoli. This protein also associates with centromeres in G2 phase. In the cytoplasm, the encoded protein may function to regulate apoptosis. The subcellular localization and function of this protein are modulated by post-translational modifications, including sumoylation, phosphorylation and polyubiquitination. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2008] |
| **UniProt Comments for DAXX** | DAXX: a transcriptional co-regulatory protein. Proposed to mediate activation of the JNK pathway and apoptosis via ASK1 in response to signaling from FAS and TGF-betaR2. Glucose deprivation activates the ASK1-SEK1-JNK1-HIPK1 pathway, relocalizing Daxx from the nucleus to the cytoplasm, where Daxx binds to ASK1, and subsequently leads to ASK1 oligomerization. Interaction with HSP27 may prevent interaction with TGF-betaR2 and ASK1 and block DAXX-mediated apoptosis. Seems to act as a transcriptional co- repressor and inhibits PAX3 and ETS1 through direct protein- protein interaction. Its transcription repressor activity is modulated by recruiting it to subnuclear compartments like the nucleolus or PML/POD/ND10 nuclear bodies through interactions with MCSR1 and PML, respectively. Two alternatively spliced isoforms have been described.<br><br>Protein type: Apoptosis; Transcription, coactivator/corepressor; Nucleolus; Nuclear receptor co-regulator<br><br>Chromosomal Location of Human Ortholog: 6p21.3<br><br>Cellular Component: heterochromatin; PML body; cytoplasm; nucleolus; nucleus; cytosol; chromosome, pericentric region<br><br>Molecular Function: protein homodimerization activity; histone binding; p53 binding; protein N-terminus binding; protein kinase binding; transcription factor binding; protein binding; enzyme binding; androgen receptor binding; heat shock protein binding; ubiquitin protein ligase binding; receptor signaling protein activity; protein kinase activator activity; transcription corepressor activity<br><br>Biological Process: viral reproduction; transcription, DNA-dependent; regulation of protein ubiquitination; apoptosis; activation of JNK activity; chromatin remodeling; nucleosome assembly; cytokinesis after mitosis; regulation of transcription, DNA-dependent; induction of apoptosis via death domain receptors; positive regulation of protein kinase activity; androgen receptor signaling pathway; positive regulation of protein amino acid phosphorylation; negative regulation of transcription, DNA-dependent |

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| **Research Articles on DAXX** | **1.** ATRX, DAXX or MEN1 mutant pancreatic neuroendocrine tumors are a distinct alpha-cell signature subgroup |
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