

TOX3 / TNRC9 Antibody - With BSA and Azide Mouse Monoclonal Antibody [Clone TOX3/1124] Catalog # AH11332

Specification

TOX3 / TNRC9 Antibody - With BSA and Azide - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW WB, IF, FC <u>O15405</u> <u>27324</u>, <u>460789</u> Human Mouse Monoclonal Mouse / IgG1, kappa 63kDa KDa

TOX3 / TNRC9 Antibody - With BSA and Azide - Additional Information

Gene ID 27324

Other Names TOX high mobility group box family member 3, CAG trinucleotide repeat-containing gene F9 protein, Trinucleotide repeat-containing gene 9 protein, TOX3, CAGF9, TNRC9

Application Note WB~~1:1000<br \>IF~~1:50~200<br \>FC~~1:10~50

Storage Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions TOX3 / TNRC9 Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

TOX3 / TNRC9 Antibody - With BSA and Azide - Protein Information

Name TOX3

Synonyms CAGF9, TNRC9

Function

Transcriptional coactivator of the p300/CBP-mediated transcription complex. Activates transactivation through cAMP response element (CRE) sites. Protects against cell death by inducing antiapoptotic and repressing pro-apoptotic transcripts. Stimulates transcription from the estrogen-responsive or BCL-2 promoters. Required for depolarization-induced transcription activation of the C-FOS promoter in neurons. Associates with chromatin to the estrogen-responsive C3 promoter region.



Cellular Location Nucleus.

Tissue Location

Expressed mainly in epithelial cells. Expressed in the central nervous system (CNS), in the ileum and within the brain in the frontal and occipital lobe.

TOX3 / TNRC9 Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

TOX3 / TNRC9 Antibody - With BSA and Azide - Images



Western Blot Analysis(A) Recombinant protein (B) A549 (C) A431 stained with TOX3 Monoclonal Antibody (TOX3/1124).

TOX3 / TNRC9 Antibody - With BSA and Azide - Background

It recognizes a 63kDa protein, which is identified as TOX3. It contains a high mobility group (HMG)-box, which regulates Ca2+-dependent transcription in neurons through interaction with the cAMP-response-element-binding protein (CREB). TOX3 appears to be associated with breast cancer susceptibility and is expressed downstream of a cytoprotective cascade together with CITED1, a transcriptional regulator that does not bind directly to DNA. TOX3 is predominantly expressed in the brain and forms homodimers. TOX3 overexpression protects neuronal cells from cell death caused by endoplasmic reticulum stress or BAX overexpression through the induction of anti-apoptotic transcripts and repression of pro-apoptotic transcripts.

TOX3 / TNRC9 Antibody - With BSA and Azide - References



O'Flaherty, E., et al. 2003. TOX defines a conserved subfamily of HMG-box proteins. BMC Genomics 4: 13. | Smid, M., et al. 2006. Genes associated with breast cancer metastatic to bone. J. Clin. Oncol. 24: 2261-2267. |