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TOX3 / TNRC9 Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone TOX3/1123]
Catalog # AH11329

Product Information

Application	IHC, IF, FC
Primary Accession	O15405
Other Accession	27324, 460789
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Clone Names	TOX3/1123
Calculated MW	63342

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	IHC~~1:100~500 IF~~1:50~200 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.

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.

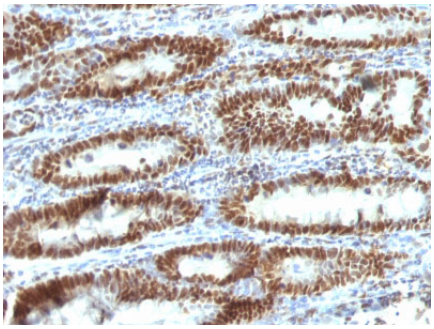
Background

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.

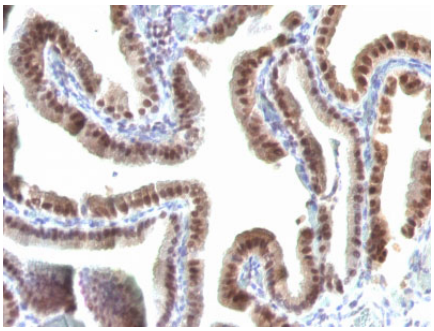
References

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. |

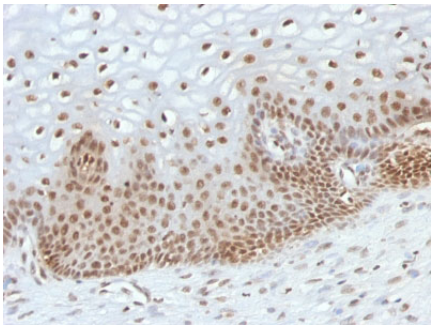
Images



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with TOX3 Monoclonal Antibody (TOX3/1123).



Formalin-fixed, paraffin-embedded human Gall Bladder stained with TOX3 Monoclonal Antibody (TOX3/1123).



Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with TOX3 Monoclonal Antibody (TOX3/1123).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.