

# TOX3 / TNRC9 Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone TOX3/1123 ]

Catalog # AH11329

## Product Information

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<b>Application</b>	IHC, IF, FC
<b>Primary Accession</b>	<a href="#">O15405</a>
<b>Other Accession</b>	<a href="#">27324</a> , <a href="#">460789</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG2b, kappa
<b>Clone Names</b>	TOX3/1123
<b>Calculated MW</b>	63342

## Additional Information

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<b>Gene ID</b>	27324
<b>Other Names</b>	TOX high mobility group box family member 3, CAG trinucleotide repeat-containing gene F9 protein, Trinucleotide repeat-containing gene 9 protein, TOX3, CAGF9, TNRC9
<b>Application Note</b>	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
<b>Storage</b>	Store at 2 to 8°C.Antibody is stable for 24 months.
<b>Precautions</b>	TOX3 / TNRC9 Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TOX3
<b>Synonyms</b>	CAGF9, TNRC9
<b>Function</b>	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.
<b>Cellular Location</b>	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**

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It recognizes a 63kDa protein, which is identified as TOX3. It contains a high mobility group (HMG)-box, which regulates Ca<sup>2+</sup>-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.

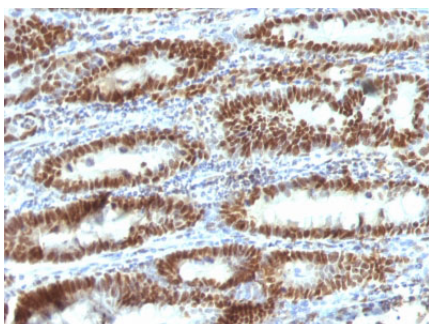
**References**

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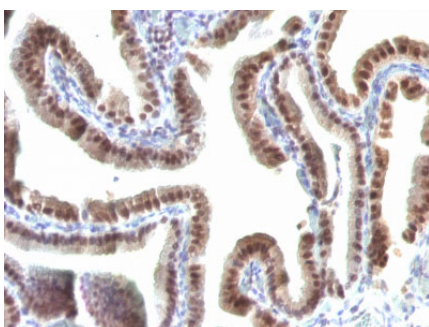
O'Flaherty, E., et al. 2003. TOX defines a conserved subfamily of HMG-box proteins. BMC Genomics 4: 13. | Smid, M., et al. 2006. Genes associated with breast cancer metastatic to bone. J. Clin. Oncol. 24: 2261-2267. |

**Images**

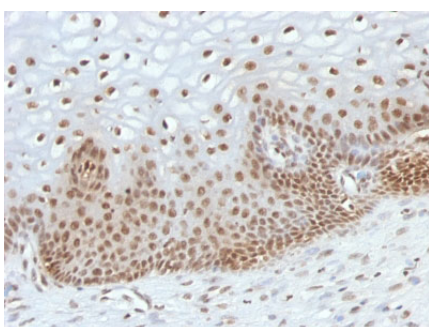
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Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with TOX3 Monoclonal Antibody (TOX3/1123).



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).