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DATA SHEET

Mouse Anti-TOX3 / TNRC9 [TOX3/1123]: MC0098

Intended Use: For Research Use Only

Description: 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.

Specifications

Clone:	TOX3/1123
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human
Localization:	Cytoplasm, nucleus
Formulation:	Protein A/G purified antibody from bioreactor concentrate. Prepared in 10mM PBS with 0.2% BSA and < 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications:	IHC, Flow Cyt, ICC/IF

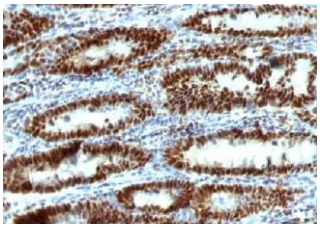
Package:

Description	Catalog No.	Size
TOX3 / TNRC9 Concentrated	MC0098	1 ml

IHC Procedure*

Positive Control Tissue:	SH-SY5Y, MDA-MB-435 cells. Brain or breast or gastric Carcinoma
Concentrated Dilution:	50-200
Pretreatment:	EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human gastric carcinoma stained with anti-TOX3 using DAB

References

1. IL-1α Gene Deletion Protects Oligodendrocytes after Spinal Cord Injury through Upregulation of the Survival Factor Tox3. Bastien D, et al. J Neurosci. Jul 29;35(30):10715-30, 2015.
2. TOX3 regulates calcium-dependent transcription in neurons. Yuan SH, et al. Proc Natl Acad Sci U S A. Feb 24;106(8): 2909-14, 2009.
3. Genes associated with breast cancer metastatic to bone. Smid, M., et al. J. Clin. Oncol. 24: 2261-2267, 2006.
4. TOX defines a conserved subfamily of HMG-box proteins. O'Flaherty, E., et al. BMC Genomics 4: 13, 2003.

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