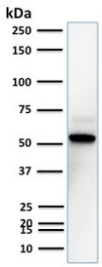
TOX3 Antibody [clone TOX3/1123] (V2541)

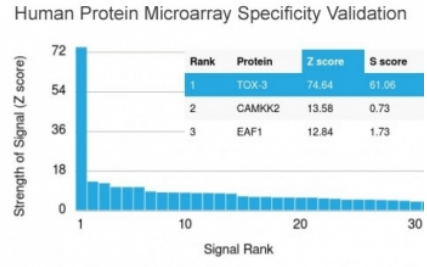
Catalog No.	Formulation	Size
V2541-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2541-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2541SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

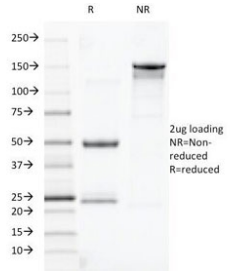
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	TOX3/1123
Purity	Protein G affinity chromatography
UniProt	O15405
Localization	Cytoplasmic & nuclear
Applications	Western Blot : 1-2ug/ml
Limitations	This TOX3 antibody is available for research use only.



Western blot testing of human A431 cell lysate with TOX3 antibody. Predicted molecular weight ~63 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using TOX3 antibody (clone TOX3/1123). These results demonstrate the foremost specificity of the TOX3/1123 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free TOX3 antibody (clone TOX3/1123) as confirmation of integrity and purity.

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.

Application Notes

Optimal dilution of the TOX3 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (139 amino acid residues around aa 200-400) from the human protein was used as the immunogen for the TOX3 antibody.

Storage

Store the TOX3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).