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Anti-TOX Antibody (aa450-525)

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS18396

Specification

Anti-TOX Antibody (aa450-525) - Product Information

Application	**WB, IHC-P**
Primary Accession	O94900
Predicted	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**57513**

Anti-TOX Antibody (aa450-525) - Additional Information

Gene ID 9760

Alias Symbol	**TOX**

Other Names
TOX, KIAA0808, TOX1

Target/Specificity
Human TOX

Reconstitution & Storage
Purified

Precautions
Anti-TOX Antibody (aa450-525) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-TOX Antibody (aa450-525) - Protein Information

Name TOX {ECO:0000303|PubMed:21126536, ECO:0000312|HGNC:HGNC:18988}

Function
Transcriptional regulator with a major role in neural stem cell commitment and corticogenesis as well as in lymphoid cell development and lymphoid tissue organogenesis (By similarity). Binds to GC-rich DNA sequences in the proximity of transcription start sites and may alter chromatin structure, modifying access of transcription factors to DNA. During cortical development, controls the neural stem cell pool by inhibiting the switch from proliferative to differentiating progenitors. Beyond progenitor cells, promotes neurite outgrowth in newborn neurons migrating to reach the cortical plate. May activate or repress critical genes for neural stem cell fate such as SOX2, EOMES and ROBO2 (By similarity). Plays an essential role in the development of lymphoid tissue-inducer (LTi) cells, a subset necessary for the formation of secondary lymphoid organs: peripheral lymph nodes and Peyer's patches. Acts as a developmental checkpoint and regulates thymocyte positive selection toward T cell lineage commitment. Required for the development of various T cell subsets, including CD4-positive helper T cells, CD8-positive cytotoxic T cells, regulatory T cells and

CD1D-dependent natural killer T (NKT) cells. Required for the differentiation of common lymphoid progenitors (CMP) to innate lymphoid cells (ILC) (By similarity). May regulate the NOTCH-mediated gene program, promoting differentiation of the ILC lineage. Required at the progenitor phase of NK cell development in the bone marrow to specify NK cell lineage commitment (PubMed:21126536) (By similarity). Upon chronic antigen stimulation, diverts T cell development by promoting the generation of exhaustive T cells, while suppressing effector and memory T cell programming. May regulate the expression of genes encoding inhibitory receptors such as PDCD1 and induce the exhaustion program, to prevent the overstimulation of T cells and activation- induced cell death (By similarity).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00267}.

Tissue Location
Expressed in NK cells (PubMed:21126536). Highly expressed in tumor-infiltrating CD8-positive T cells (at protein level) (PubMed:31207604).

Anti-TOX Antibody (aa450-525) - 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
- Cell Culture

Anti-TOX Antibody (aa450-525) - Images