

ZNF683 Rabbit pAb

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Catalog # AP56308

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IZ20
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56905
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZNF683
Epitope Specificity	341-440/524
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. Zinc finger protein 683 (ZNF683) is a 509 amino acid member of the Krüppel C2H2-type zinc finger protein family. Localized to the nucleus, ZNF683 contains four C2H2-type zinc fingers through which it is thought to be involved in DNA-binding and transcriptional regulation. Two isoforms of ZNF683 exist as a result of alternative splicing events.

Additional Information

Gene ID	257101
Other Names	Tissue-resident T-cell transcription regulator protein ZNF683, Homolog of Blimp-1 in T-cell, ZNF683 (HGNC:28495)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name ZNF683 ([HGNC:28495](#))

Function Transcription factor that mediates a transcriptional program in various innate and adaptive immune tissue-resident lymphocyte T-cell types such as tissue-resident memory T (Trm), natural killer (trNK) and natural killer T (NKT) cells and negatively regulates gene expression of proteins that promote the egress of tissue-resident T-cell populations from non-lymphoid organs. Plays a role in the development, retention and long-term establishment of adaptive and innate tissue- resident lymphocyte T cell types in non-lymphoid organs, such as the skin and gut, but also in other nonbarrier tissues like liver and kidney, and therefore may provide immediate immunological protection against reactivating infections or viral reinfection. Also plays a role in the differentiation of both thymic and peripheral NKT cells. Negatively regulates the accumulation of interferon-gamma (IFN-gamma) in NKT cells at steady state or after antigenic stimulation. Positively regulates granzyme B production in NKT cells after innate stimulation. Associates with the transcriptional repressor PRDM1/BLIMP1 to chromatin at gene promoter regions.

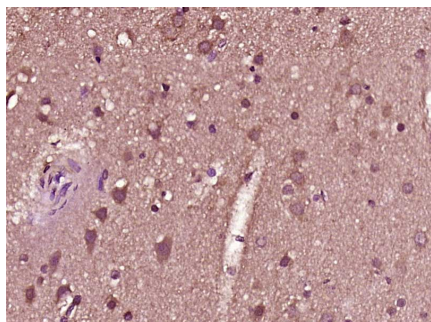
Cellular Location Nucleus.

Tissue Location Expressed in terminally differentiated effector CD8(+) T-cells, but not in naive and central memory cells (PubMed:26179882). Expressed in terminally differentiated natural killer (NK) cells and natural killer (NKT) T-cells (at protein level) (PubMed:26179882). Expressed strongly in effector-type CD8(+) T-cells and weakly in naive and memory CD8(+) T-cells (PubMed:26179882) Expressed in terminally differentiated natural killer (NK) cells (PubMed:26179882). Isoform 2 is strongly expressed in effector CD8(+) T and natural killer (NK) cells (PubMed:26179882). Isoform 1 is expressed in effector CD8(+) T and natural killer (NK) cells (PubMed:26179882)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ZNF683) Polyclonal Antibody, Unconjugated (AP56308) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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