SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GATA3 antibody

Catalog Number: SL23118R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GATA3
Immunogen:	KLH conjugated synthetic peptide derived from human GATA3: 151-250/443
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Horse,Rabbit)
Predicted MW.:	49kDa
Subcellular Location:	The nucleus
Background:	Members of the GATA family share a conserved zinc finger DNA-binding domain and are capable of binding the WGATAR consensus sequence. GATA-1 is erythroid-specific and is responsible for the regulated transcription of erythroid genes. It is an essential component in the generation of the erythroid lineage. GATA-2 is expressed in embryonic brain and liver, HeLa and endothelial cells, as well as in erythroid cells. Studies with a modified GATA consensus sequence, AGATCTTA, have shown that GATA-2 and GATA-3 recognize this mutated consensus while GATA-1 has poor recognition of this sequence. This indicates broader regulatory capabilities of GATA-2 and GATA-3 than GATA-1. GATA-3 is highly expressed in T lymphocytes. GATA-4, GATA-5 and GATA-6 comprise a subfamily of transcription factors. Both GATA-4 and GATA-6 are found in heart, pancreas and ovary; lung and liver tissues exhibit GATA-6, but not GATA-4 expression.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	GATA-5 expression has been observed in differentiated heart and gut tissues and is present throughout the course of development in the heart. Although expression patterns of the various GATA transcription factors may overlap, it is not yet apparent how the GATA factors are able to discriminate in binding their appropriate target sites. **Function:** Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'. **Subcellular Location:** Nucleus. **Tissue Specificity:** T-cells and endothelial cells. DISEASE: Defects in GATA3 are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia (HDR) [MIM:146255]; also known as Barakat syndrome. **Similarity:** Contains 2 GATA-type zinc fingers. **Database links:** **Entrez Gene:** 2625 Human **Entrez Gene:** 14462 Mouse **Entrez Gene:** 85471 Rat Omim: 131320 Human **SwissProt:** P23771 Human **SwissProt:** P23772 Mouse **Unigene:** 524134 Human **Unigene:** 313866 Mouse GATA-3 is a transcriptional regulatory factor expressed in brain tissue, thymus and many other tissues, and regulates the development and function of this type of T cells.

[VALIDATION IMAGES]

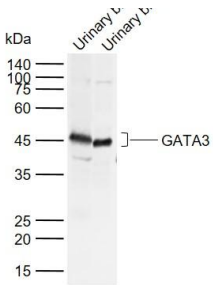


Figure 1. Sample: Lane 1: Mouse Urinary bladder tissue lysates Lane 2: Rat Urinary bladder tissue lysates Primary: Anti-GATA3 (SL23118R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kDa Observed band size: 47 kDa

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