

For Research Use Only

# GATA3 Recombinant antibody

Catalog Number: 83808-1-RR



## Basic Information

<b>Catalog Number:</b> 83808-1-RR	<b>GenBank Accession Number:</b> BC003070	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2625	<b>CloneNo.:</b> 240684A2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P23771	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> GATA binding protein 3	
<b>Immunogen Catalog Number:</b> AG0174	<b>Calculated MW:</b> 443 aa, 48 kDa	
	<b>Observed MW:</b> 37 kDa and 48 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : EL-4 cells, MCF-7 cells, SH-SY5Y cells, T-47D cells
<b>Species Specificity:</b> human, mouse	

## Background Information

Trans-acting T-cell-specific transcription factor, also known as GATA3, belongs to the zinc-finger transcription factor GATA family which drives the differentiation of T helper (Th) 2 cells. GATA factors are expressed in a tissue-specific manner and GATA3 is present in both hematopoietic (e.g., T cells) and non-hematopoietic tissues, including the kidney, central nervous system, skin, and mammary gland (PMID: 25148023). GATA3 plays a central role in Th2 responses both in vitro and in vivo (PMID: 16467870). The full-length GATA3 protein contains 444 aa corresponding to the molecular weights of 48 kDa, and the truncated protein was detected at approximately 37 kDa (PMID: 24758297).

## Storage

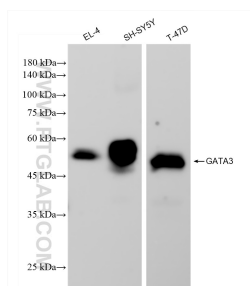
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

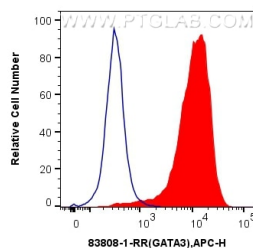
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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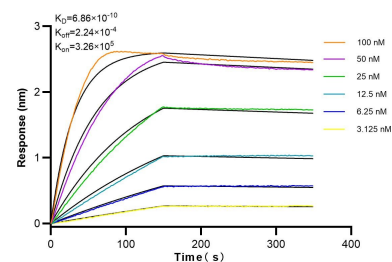
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83808-1-RR (GATA3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  Jurkat cells were intracellularly stained with 0.25  $\mu$ g GATA3 Recombinant antibody (83808-1-RR, Clone:240684A2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83808-1-RR against Human GATA3 were performed. The affinity constant is 0.686 nM.