For Research Use Only

GATA1 Polyclonal antibody

Catalog Number:10917-2-AP Featured Product 19 Publications

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Basic Information

Catalog Number:
10917-2-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1350

GenBank Accession Number:
BC009797

GeneID (NCBI):
2623

UNIPROT ID:
P15976

Full Name:
GATA binding protein 1 (globin transcription factor 1)

Calculated MW:
43 kDa

Observed MW:
50-55 kDa, 40-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC, IF, CoIP, ChIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HL-60 cells, Raji cells, K-562 cells, NIH/3T3 cells

IP : K-562 cells,

IHC : mouse testis tissue,

Background Information

GATA1 is first identified as a member of the GATA transcription factor family, whose members bind the consensus (WGATAR) binding motif [PMID:22937757]. GATA1, a zinc finger DNA-binding transcription factor, plays a critical role in the normal development of hematopoietic cell lineages. The protein contains an N-terminal region that confers transcriptional activity and a C-terminal domain that mediates binding to DNA and other factors [PMID: 8524811]. GATA-1 is also implicated in regulating the expression of the erythroid and megakaryocytic-specific genes [PMID:22937757]. GATA1 exists two isoform with the molecular weight 50-55 kDa and 40-45 kDa (PMID: 31189107).

Notable Publications

Author	Pubmed ID	Journal	Application
Junhui Yu	31069596	Mol Cell Biochem	WB,IHC
Chunlin Wang	33717090	Front Immunol	WB
Takehito Sugasawa	34440425	Genes (Basel)	IHC

Storage

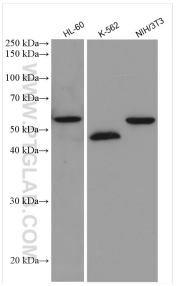
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

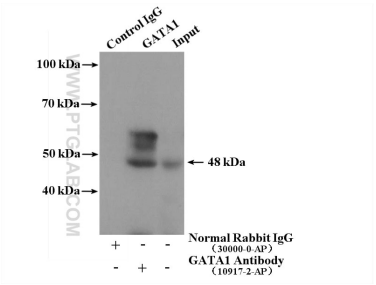
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

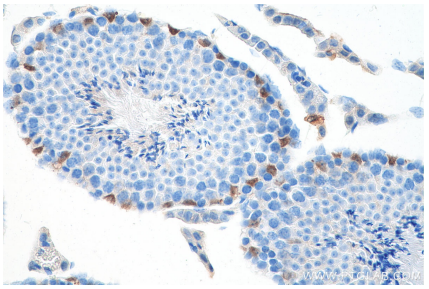
Selected Validation Data



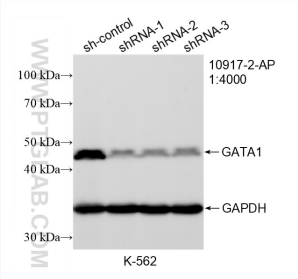
Various lysates were subjected to SDS PAGE followed by western blot with 10917-2-AP (GATA1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-GATA1 (IP:10917-2-AP, 4ug; Detection:10917-2-AP 1:500) with K-562 cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10917-2-AP (GATA1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of GATA1 antibody (10917-2-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GATA1 transfected K-562 cells.