

For Research Use Only

GATA1 Polyclonal antibody

Catalog Number: 10917-2-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

10917-2-AP

Size:

700 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC, ChIP

Species Specificity:

human, mouse

Cited Species:

human, mouse

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 Sugawara	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

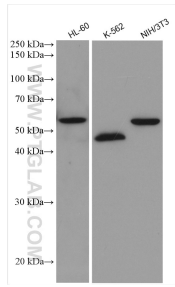
T: 4006900926

E: Proteintech-CN@ptglab.com

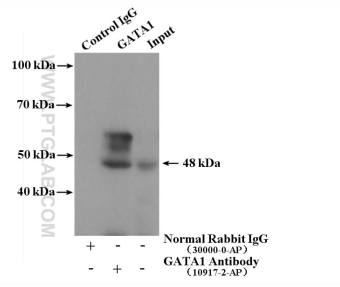
W: ptgcn.com

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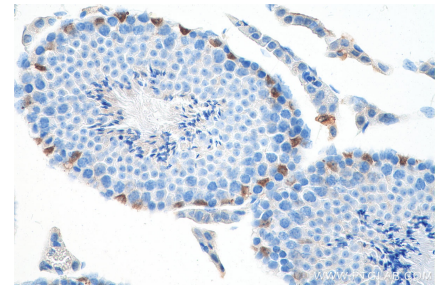
Selected Validation Data



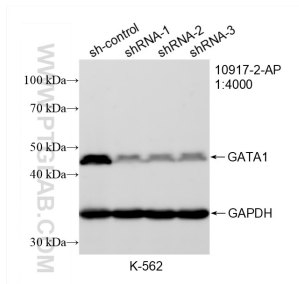
Various lysates were subjected to SDS PAGE followed by western blot with 10917-2-AP (GATA1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10917-2-AP (GATA1 antibody) at dilution of 1:200 (under 40 \times 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.