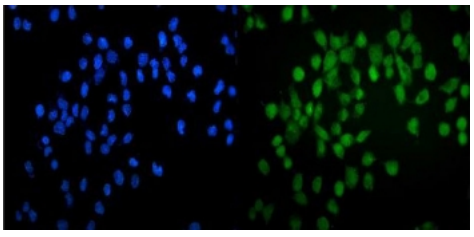
GATA2 Antibody / GATA Binding Protein 2 Antibody (RQ5727)

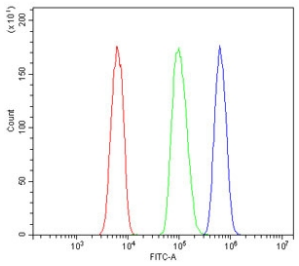
Catalog No.	Formulation	Size
RQ5727	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

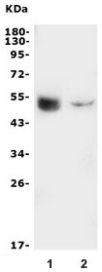
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P23769
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 2-4ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This GATA2 Antibody / GATA Binding Protein 2 Antibody is available for research use only.



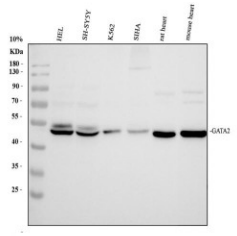
GATA2 Antibody Human A431 Cell IF. Immunofluorescent staining of FFPE human A431 cells with GATA2 Antibody (green) and DAPI nuclear stain (blue). Heat-induced epitope retrieval was performed by steaming in pH6 citrate buffer for 20 minutes. Green fluorescence demonstrates prominent nuclear GATA2 expression, consistent with its function as a transcription factor, while nuclei are counterstained blue with DAPI. This GATA2 Antibody, also called GATA Binding Protein 2 Antibody, supports studies of GATA2 expression, transcriptional regulation, cellular differentiation, and developmental biology.



GATA2 Antibody Human HL-60 Cell FACS. Flow cytometry analysis of human HL-60 cells with GATA2 Antibody at 1 ug/million cells following blocking with goat serum. The histogram shows cells alone (red), isotype control (green), and antibody-stained cells (blue). A clear rightward shift of the antibody-stained population relative to the isotype control demonstrates detection of GATA2 in HL-60 cells. This GATA2 Antibody, also called GATA Binding Protein 2 Antibody, supports studies of GATA2 expression, hematopoietic differentiation, transcriptional regulation, and myeloid cell biology.



GATA2 Antibody Human Hematopoietic Cell WB. Western blot testing of human K562 (lane 1) and HL-60 (lane 2) cell lysates with GATA2 Antibody. A specific band is detected at approximately 51 kDa, consistent with the predicted molecular weight of GATA2. Detection in two human hematopoietic cell lines demonstrates recognition of endogenous GATA2 protein. This GATA2 Antibody, also called GATA Binding Protein 2 Antibody, supports studies of hematopoiesis, myeloid cell differentiation, gene expression, and transcriptional regulation.



GATA2 Antibody Human, Rat and Mouse WB. Western blot analysis of human HEL (lane 1), SH-SY5Y (lane 2), K562 (lane 3), and SiHa (lane 4) cell lysates, rat heart (lane 5), and mouse heart (lane 6) tissue lysates with GATA2 Antibody at 0.5 ug/ml. A prominent band is detected at approximately 51 kDa, consistent with the expected molecular weight of GATA2. Detection across human, rat, and mouse samples demonstrates recognition of endogenous GATA2. This GATA2 Antibody, also called GATA Binding Protein 2 Antibody, supports studies of transcriptional regulation, hematopoiesis, cellular differentiation, and developmental biology.

Description

GATA2 Antibody / GATA Binding Protein 2 Antibody recognizes GATA2, a zinc finger transcription factor that plays a central role in hematopoiesis, stem and progenitor cell biology, and vascular development. GATA2 belongs to the GATA family of DNA-binding proteins, which recognize GATA sequence motifs within regulatory regions of target genes. The protein contains two characteristic zinc finger domains that contribute to DNA binding and interactions with transcriptional cofactors. Through regulation of lineage- and developmental-specific gene expression, GATA2 helps control cell proliferation, differentiation, survival, and maintenance of progenitor cell populations.

GATA2 is particularly important in the hematopoietic system. It is expressed in hematopoietic stem and progenitor cells and contributes to the maintenance and function of early blood-forming populations. GATA2 activity must be carefully regulated as cells progress through hematopoietic differentiation, and it interacts with broader transcriptional networks governing lineage commitment. GATA2 is also important in mast cell biology and contributes to the development and function of additional myeloid and lymphoid cell populations. A GATA2 Antibody can support studies of hematopoiesis, stem and progenitor cell regulation, blood cell differentiation, and transcriptional mechanisms controlling immune cell development.

Beyond hematopoiesis, GATA2 participates in endothelial and vascular biology and has important functions during embryonic development. Its transcriptional activity contributes to the regulation of genes involved in vascular integrity and developmental cell fate decisions. Altered GATA2 expression or function is also studied in human disease. Germline GATA2 variants are associated with disorders characterized by hematopoietic and immune abnormalities, while acquired alterations and dysregulated expression are investigated in myeloid malignancies and other cancers. A GATA Binding Protein 2 Antibody is therefore relevant to research involving developmental biology, hematologic disease, leukemia, transcriptional regulation, and cancer biology.

As a nuclear transcription factor positioned within several major developmental and hematopoietic regulatory networks,

GATA2 is frequently investigated alongside other lineage-defining transcription factors and signaling proteins. Analysis of GATA2 expression can provide insight into cell identity, differentiation state, and changes in transcriptional programs associated with normal development or disease. NSJ Bioreagents offers antibodies for studying transcription factors and related regulatory pathways. A GATA2 Antibody is useful for investigating GATA Binding Protein 2 expression in hematopoiesis, stem cell biology, immune cell development, vascular biology, transcriptional regulation, and cancer research.

Explore our Transcription Factor Antibodies page to find additional antibodies for studying gene expression, hematopoietic differentiation, developmental regulation, and transcriptional control.

Application Notes

Optimal dilution of the GATA2 Antibody / GATA Binding Protein 2 Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D23-S288) was used as the immunogen for the GATA2 antibody.

Storage

After reconstitution, the GATA2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

GATA2 antibody, GATA Binding Protein 2 antibody, GATA-2 antibody, GATA Binding Factor 2 antibody, NFE1B antibody

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