

Anti-GATA2 Antibody [PSH04-53] - BSA and Azide free

HA750960



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 51 kDa
Clone number:	PSH04-53

Description:	GATA2 or GATA-binding factor 2 is a transcription factor, i.e. a nuclear protein which regulates the expression of genes. It regulates many genes that are critical for the embryonic development, self-renewal, maintenance, and functionality of blood-forming, lymphatic system-forming, and other tissue-forming stem cells. GATA2 is encoded by the GATA2 gene, a gene which often suffers germline and somatic mutations which lead to a wide range of familial and sporadic diseases, respectively. The gene and its product are targets for the treatment of these diseases. Inactivating mutations of the GATA2 gene cause a reduction in the cellular levels of GATA2 and the development of a wide range of familial hematological, immunological, lymphatic, and/or other disorders that are grouped together into a common disease termed GATA2 deficiency. Less commonly, these disorders are associated with non-familial (i.e. sporadic or acquired) GATA inactivating mutations. GATA2 deficiency often begins with seemingly benign abnormalities but if untreated progresses to life-threatening opportunistic infections, virus-induced cancers, lung failure, the myelodysplastic syndrome (i.e. MDS), and/or acute myeloid leukemia, principally acute myeloid leukemia (AML), less commonly chronic myelomonocytic leukemia (CMML), and rarely a lymphoid leukemia.
Immunogen:	Synthetic peptide within human GATA2 aa 1-50.
Positive control:	SH-SY5Y cell lysate, LNCaP cell lysate, PC-12 cell lysate, SH-SY5Y.
Subcellular location:	Nucleus.
Database links:	SwissProt: P23769 Human Q924Y4 Rat
Recommended Dilutions:	
WB	1:2,000
IF-Cell	1:100
Storage Buffer:	PBS (pH7.4).
Storage Instruction:	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

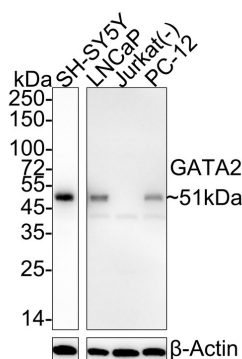
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of GATA2 on different lysates with Rabbit anti-GATA2 antibody (HA750960) at 1/2,000 dilution.

Lane 1: SH-SY5Y cell lysate
 Lane 2: LNCaP cell lysate
 Lane 3: Jurkat cell lysate (negative)
 Lane 4: PC-12 cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 51 kDa

Observed band size: 51 kDa

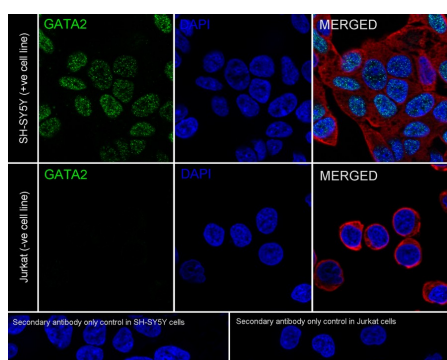
Exposure time: Lane 1: 9 seconds; Lane 2-4: 40 seconds;

ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750960) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of SH-SY5Y (positive) and Jurkat (negative) labeling GATA2 with Rabbit anti-GATA2 antibody (HA750960) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-GATA2 antibody (HA750960) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Calvo KR et al. The spectrum of GATA2 deficiency syndrome. Blood. 2023 Mar
2. Fabozzi F et al. GATA2 and marrow failure. Best Pract Res Clin Haematol. 2021 Jun

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