

# Product Datasheet

## GATA-3 Antibody (A3G3-R)

### NBP3-32375

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32375****GATA-3 Antibody (A3G3-R)**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	A3G3-R
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH7.4), 0.1% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	48 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	2625
<b>Gene Symbol</b>	GATA3
<b>Species</b>	Human
<b>Immunogen</b>	Synthetic peptide within N-terminal Human GATA-3. (Uniprot: P23771)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:200



## Images

Western Blot: GATA-3 Antibody (A3G3-R) [NBP3-32375] - Western blot analysis of GATA-3 on different lysates with Mouse anti-GATA-3 antibody (NBP3-32375) at 1/1,000 dilution.

Lane 1: SH-SY5Y cell lysate

Lane 2: MCF7 cell lysate

Lane 3: Jurkat cell lysate

Lysates/proteins at 20 ug/Lane.

Predicted band size: 48 kDa

Observed band size: 48/37/25 kDa

Exposure time: 1 minute;

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 (NBP3-32375) at 1/1,000 dilution was used in 5% NFDM/TBST at 4 overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

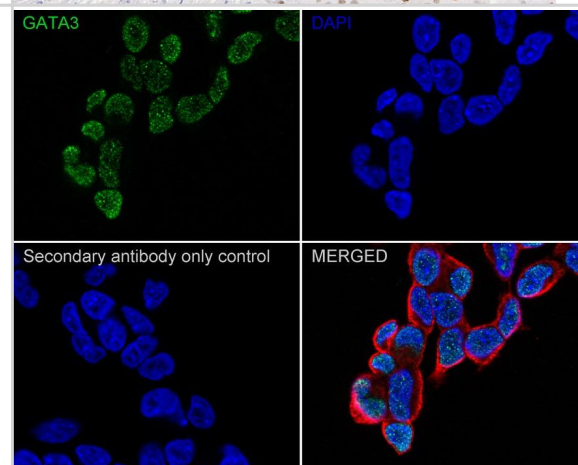
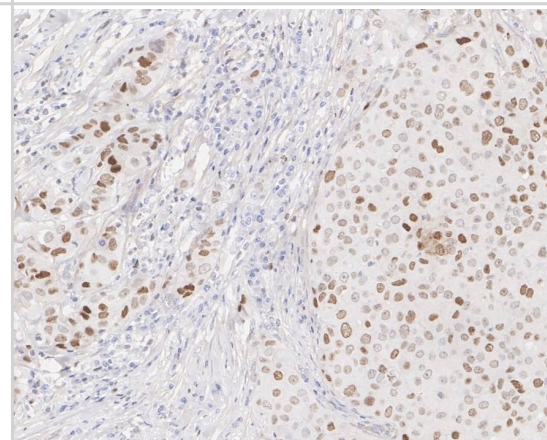
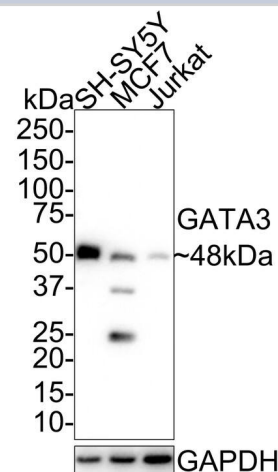
Immunohistochemistry: GATA-3 Antibody (A3G3-R) [NBP3-32375] - Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue with Mouse anti-GATA-3 antibody (NBP3-32375) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32375) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Immunocytochemistry/ Immunofluorescence: GATA-3 Antibody (A3G3-R) [NBP3-32375] - Immunocytochemistry analysis of SH-SY5Y cells labeling GATA-3 with Mouse anti-GATA-3 antibody (NBP3-32375) at 1/100 dilution.

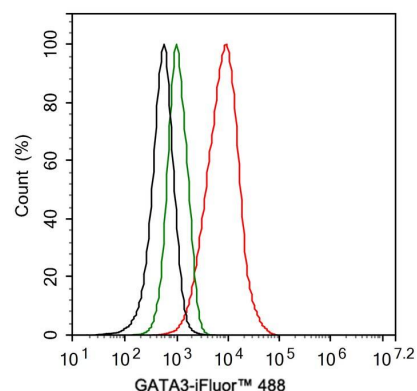
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-GATA-3 antibody (NBP3-32375) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488) 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 (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594) were used as the secondary antibody at 1/1,000 dilution.



# Flow Cytometry: GATA-3 Antibody (A3G3-R) [NBP3-32375] - Flow cytometric analysis of SH-SY5Y cells labeling GATA-3.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32375, 1 µg/mL) (red) compared with Mouse IgG1 Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Mouse IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).





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### **Products Related to NBP3-32375**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00002625-P02-2ug	Recombinant Human GATA-3 GST (N-Term) Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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