

Rabbit anti-Human GATA3 Polyclonal Antibody | anti-GATA3 antibody

Rabbit anti GATA3

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50288	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry

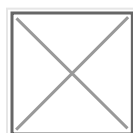
PRODUCT SYNONYMS

GATA3; Polyclonal Antibody; Rabbit anti GATA3; GATA3 Antibody; anti-GATA3 antibody

PRODUCT SPECIFICATIONS

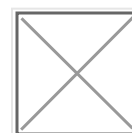
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Purified whole serum by affinity chromatography on Protein G.
Form/Format	Liquid in phosphate buffered saline with 0.05% sodium azide (NaN ₃), 1 mg/ml bovine serum albumin, 30% glycerol
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	443
Applicable Applications for anti-GATA3 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)
Immunogen	Purified partial recombinant GATA3 protein expressed in E Coli
Preparation	Antiserum to GATA3 was raised by repeated immunization of rabbits with highly purified antigen.
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of despatch

IMAGES



IF (Immunofluorescence)

Immunofluorescent analysis of GATA3 (green) in MCF7 (left panel) and SH-SY5Y cells (right panel). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% BSA for 15 minutes at room temperature. Cells were probed with GATA3 polyclonal antibody at a dilution of 1/50 for at least 1 hour at room temperature, washed with PBS, and incubated with a goat anti-rabbit IgG secondary antibody (green) for 30 minutes at room temperature. Cells were counterstained with phalloidin (F-actin, red) and Hoechst 33342 (Nucleus, blue). Cells were viewed at 20x magnification



IHC (Immunohistochemistry)

Immunohistochemistry analysis of GATA3 showing staining in the nucleus of paraffin-embedded human tonsil tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10 mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with GATA3 polyclonal antibody diluted in 3% BSA-PBS at a dilution of 1/200 overnight at 4 degree C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting



WB (Western Blot)

Western blot analysis of GATA3 was performed by loading 15 ug of SH-SY5Y whole cell lysate (WCL), SH-SY5Y nuclear extract (NE) onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked for at least 1 hour. The membrane was probed with GATA3 polyclonal antibody at a dilution of 1/1000 overnight at 4 degree C on a rocking platform, washed in TBS-0.1%Tween-20, and probed with an HRP-conjugated goat anti-rabbit IgG secondary antibody for 1 hour. Chemiluminescence was performed for band detection

ADDITIONAL INFORMATION

Related Product Information for anti-GATA3 antibody	Rabbit anti GATA3 antibody recognizes GATA3, also known as Trans-acting T-cell-specific transcription factor GATA-3 or GATA-binding factor 3. The protein is a member of the GATA family of transcription factors, which has received its name from binding DNA sequences containing the GATA consensus motif 5'-[AT]GATA[AG]-3' (uniprot P15976). GATA3 has been shown to play a critical role in T cell development and the differentiation of T helper 2 (Th2) cells (Ho et al.1991). In addition, GATA3 has been implied to have tissue specific functions such as a regulatory role in the development of the mammary gland epithelium and skin tissue (Chou et al. 2010). Aberrant GATA3 levels have been identified in a variety of cancers including breast cancer. Indeed, GATA3 has become a marker for certain breast cancer types and GATA3 antibodies are commonly used for the immunohistochemical evaluation of breast cancer samples (Krings et al. 2014).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	120962
NCBI GeneID	2625
UniProt Accession #	P23771; Q5VWG7; Q5VWG8; Q96J16
Molecular Weight	48,045 Da
NCBI Official Full Name	Trans-acting T-cell-specific transcription factor GATA-3
NCBI Official Synonym Full Names	GATA binding protein 3
NCBI Official Symbol	GATA3
NCBI Official Synonym Symbols	HDR; HDRS
NCBI Protein Information	trans-acting T-cell-specific transcription factor GATA-3
UniProt Protein Name	Trans-acting T-cell-specific transcription factor GATA-3
UniProt Gene Name	GATA3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gata3-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/50288>