

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

Phospho-GATA3 (Ser308) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321572	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

GATA3; Polyclonal Antibody; Phospho-GATA3 (Ser308) Antibody; GATA 3; GATA binding factor 3; GATA binding protein 3; GATA-binding factor 3; Gata3; GATA3_HUMAN; HDR; HDRS; MGC2346; MGC5199; MGC5445; Trans acting T cell specific transcription factor GATA 3; Trans-acting T-cell-specific transcription factor GATA-3; anti-GATA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-GATA3 (Ser308) antibody detects endogenous levels of GATA3 only when phosphorylated at Serine 308
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	444
Applicable Applications for anti-GATA3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GATA3 around the phosphorylation site of Serine 308
Subcellular Location	Nucleus.
Tissue Specificity	T-cells and endothelial cells.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser308
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321572 at 1/50 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA321572 staining HUVEC cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



WB (Western Blot)
Western blot analysis of GATA3 phosphorylation expression in HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of GATA3 phosphorylation expression in rat spleen tissue lysates, The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GATA3 antibody

Description: GATA3 is a transcriptional activator which binds to the enhancer of the T cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'.

Function: Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'. Required for the T-helper 2 (Th2) differentiation process following immune and inflammatory responses.

Subunit Structure: Interacts with TBX21 ('Tyr-530' phosphorylated form).

Similarity: Binds DNA via the 2 GATA-type zinc fingers. Each zinc finger may bind either adjacent sites in a palindromic motif, or a different DNA molecule allowing looping and long-range gene regulation. The YxKxHxxxRP motif is critical for DNA-binding and function.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50541959
NCBI GeneID	2625
NCBI Accession #	NP_001002295.1
NCBI GenBank Nucleotide #	NM_001002295.1
UniProt Accession #	P23771; Q5VWG7; Q5VWG8; Q96J16
Molecular Weight	Observed: 47 kDa Predicted: 48 kDa
NCBI Official Full Name	trans-acting T-cell-specific transcription factor GATA-3 isoform 1
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.

