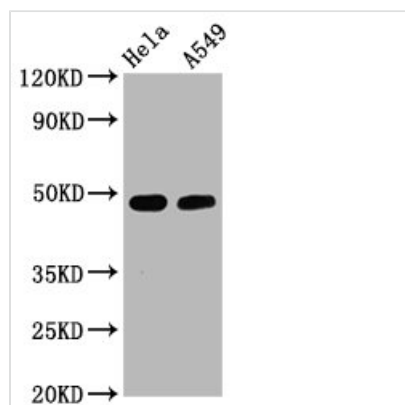




Phospho-GATA3 (S308) Recombinant Monoclonal Antibody

Product Code	CSB-RA009276A308phHU
Abbreviation	Trans-acting T-cell-specific transcription factor GATA-3
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P23771
Immunogen	A synthesized peptide derived from Human Phospho-GATA3 (S308)
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Trans-acting T-cell-specific transcription factor GATA-3, GATA-binding factor 3, GATA3
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	GATA3
Clone No.	1E5

Image



Western Blot

Positive WB detected in HeLa whole cell lysate, A549 whole cell lysate

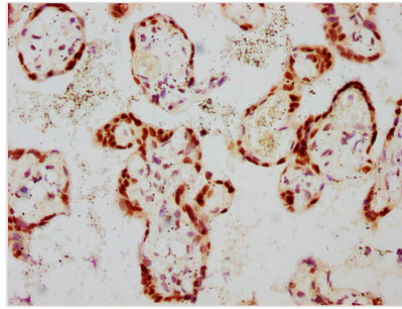
All lanes Phospho-GATA3 antibody at 2.5µg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 48 KDa

Observed band size: 48 KDa



IHC image of CSB-RA009276A308phHU diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4^o overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Description

CUSABIO put the phospho-GATA3 (S308) monoclonal antibody DNA sequence into the plasmid, which was subsequently transfected into the cell line for expression. Immunizing mice with the synthetic phospho-peptide corresponding to residues surrounding Ser 308 of human GATA3 produced the phospho-GATA3 (S308) monoclonal antibody. The recombinant phospho-GATA3 (S308) monoclonal antibody was obtained after the product was purified using affinity chromatography. It's a rabbit IgG antibody. This phospho-GATA3 (S308) antibody has undergone ELISA, WB, and IHC quality testings. It is reactive with human samples. This anti-pSer308-GATA3 antibody may be used to address the functional role of GATA3 phosphorylation.

GATA3 is mostly expressed in T lymphocytes and is essential for both early thymic T-cell development and functional differentiation of naive CD4 T cells into Th2 cells. GATA3, a T-cell transcription factor, has been found to influence Th2 T-cell development in a number of investigations. It also plays a role in mammary gland development and the preservation of luminal epithelial cells' differentiated state. Posttranslational modifications, the proteasome pathway, and phosphorylation all can regulate GATA3 activity. In ER-positive breast cancer cells, phosphorylation of GATA3 at Ser308 has previously been utilized as a marker of proteasomal turnover.