

Mouse anti-Human GATA-3 Monoclonal Antibody | anti-GATA-3 antibody

GATA-3 (Breast and Urothelial Marker)

CATALOG # AAA214990	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

GATA-3; Monoclonal Antibody; GATA-3 (Breast and Urothelial Marker); GATA3; GATA binding protein-3; GATA-binding factor 3; HDR; HDRS; Transacting T-cell-specific transcription factor GATA-3; anti-GATA-3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	GATA3/2444
Specificity	GATA-3 is a zinc finger transcription factor and plays an important role in promoting and directing cell proliferation, development, and differentiation in many tissues and cell types. GATA-3 expression is primarily seen in breast and urothelial carcinomas. Therefore, GATA3 antibody can be useful in the identification of unknown primary carcinoma when carcinomas of the breast or bladder are a possibility.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	444
Applicable Applications for anti-GATA-3 antibody	IHC (Immunohistochemistry)
Positive Control	MCF-7 or T47D cells. Breast or Bladder Carcinoma.
Immunogen	Recombinant fragment of human GATA3 protein (around aa 357-436) (exact sequence is proprietary)
Cellular Localization	Nuclear
Hu-chromosome Location	10p14
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using GATA-3 Mouse Monoclonal Antibody (GATA3/2444). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified GATA-3 Mouse Monoclonal Antibody (GATA3/2444). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with GATA-3 Mouse Monoclonal Antibody (GATA3/2444).

ADDITIONAL INFORMATION

References

1. Liu H, et al. Am J Clin Pathol. 2012; 138:57-64. 2. Higgins JP, et al. Am J SurgPathol. 2007; 31:673-680.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50541959
NCBI GeneID	2625
NCBI Accession #	NP_001002295.1
NCBI GenBank Nucleotide #	NP_001002295.1
UniProt Accession #	P23771
Molecular Weight	50kDa
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
UniProt Entry Name	GATA3_HUMAN

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