

GATA3 Monoclonal antibody

Catalog Number: 66400-1-Ig 17 Publications

Basic Information

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| Catalog Number: 66400-1-Ig | GenBank Accession Number: BC003070 | Purification Method: Protein A purification |
| Size: 1600 ug/ml | GeneID (NCBI): 2625 | CloneNo.: 1B11A8 |
| Source: Mouse | UNIPROT ID: P23771 | Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF-P 1:50-1:500 IF/ICC 1:400-1:1600 |
| Isotype: IgG2a | Full Name: GATA binding protein 3 | |
| Immunogen Catalog Number: AG0174 | Calculated MW: 443 aa, 48 kDa Observed MW: 50 kDa | |

Applications

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| Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA | Positive Controls: WB : MCF-7 cells, HeLa cells, Jurkat cells, RAW 264.7 cells IHC : human breast cancer tissue, human colon cancer tissue IF-P : human breast cancer tissue, IF/ICC : MCF-7 cells, HepG2 cells |
| Cited Applications: WB, IHC, IF, ColP | |
| Species Specificity: human, mouse | |
| Cited Species: human, mouse, rat, pig | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

GATA3 is a transcriptional factor that binds to the enhancer elements of all 4 T-cell antigen receptor genes. GATA3 is highly expressed in naive, freshly activated cells and Th2 lineage cells and thought to be necessary and sufficient for Th2 cytokine gene expression. GATA3 and TBET interfere with each other to regulate gene expression.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|--------------------------|-------------|
| Muhua Huang | 34493162 | Pharm Biol | WB |
| Diego R Coelho | 35858297 | Proc Natl Acad Sci U S A | WB, ColP |
| Zhi-Wen Zeng | 35776292 | Chin J Integr Med | IHC |

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

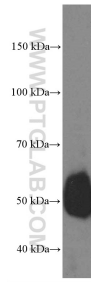
For technical support and original validation data for this product please contact:

T: 4006900926

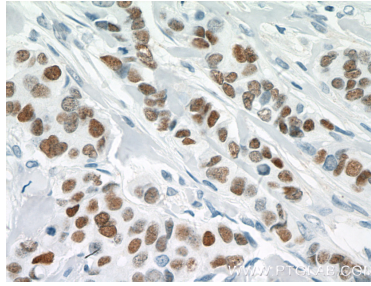
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

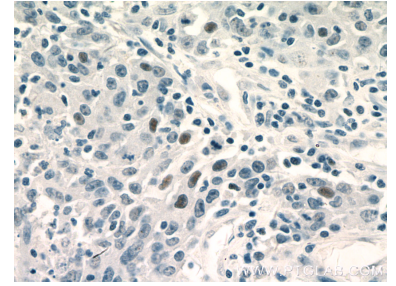
Selected Validation Data



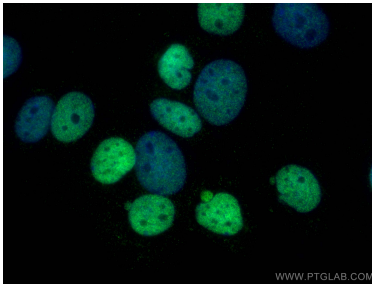
MCF-7 cells were subjected to SDS PAGE followed by western blot with 66400-1-Ig (GATA3 Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



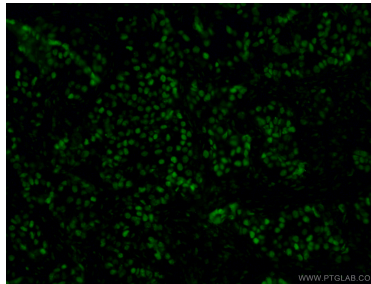
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66400-1-Ig (GATA3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66400-1-Ig (GATA3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using GATA3 antibody (66400-1-Ig, Clone: 1B11A8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 66400-1-Ig (GATA3 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).