OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for UM870110

GATA3 Mouse Monoclonal Antibody [Clone ID: UMAB218]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB218
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	IHC 1:50~100, IF 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 155-443 of human GATA3 (NP_002042) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	47.9 kDa
Gene Name:	Homo sapiens GATA binding protein 3 (GATA3), transcript variant 1, mRNA.
Database Link:	NP_001002295 Entrez Gene 14462 MouseEntrez Gene 85471 RatEntrez Gene 2625 Human P23771
Background:	This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia. [provided by RefSeq, Nov 2009]

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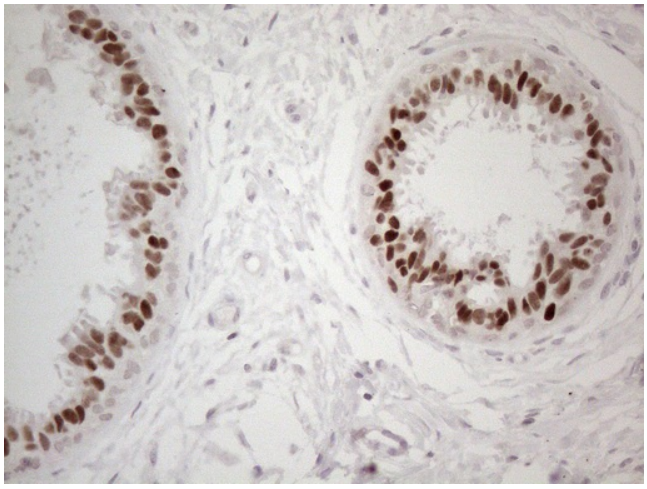
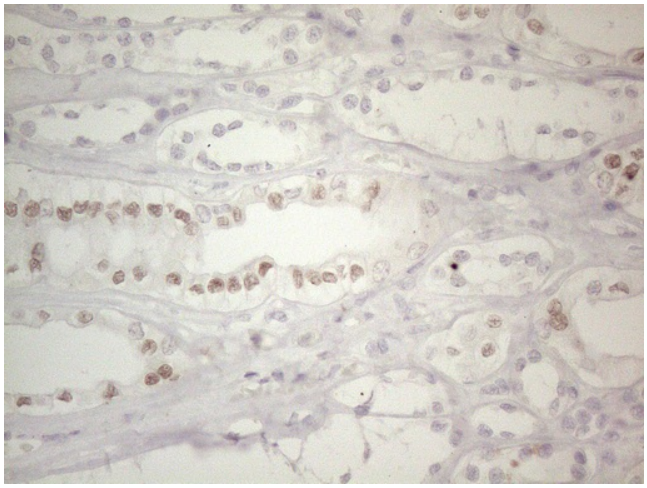
Synonyms: HDR; HDRS

Protein Families: Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

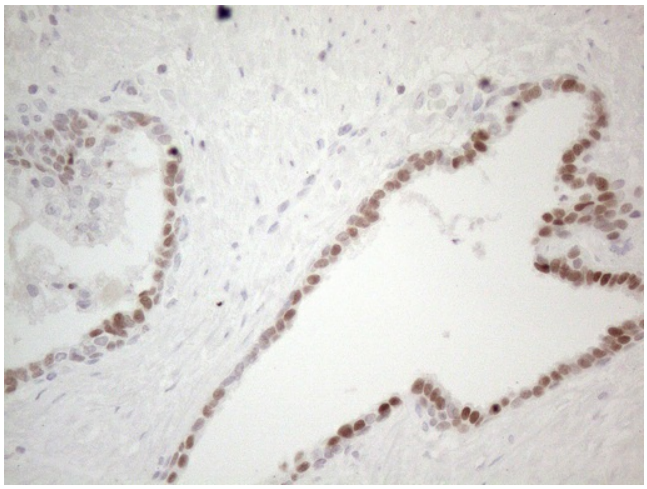
Product images:



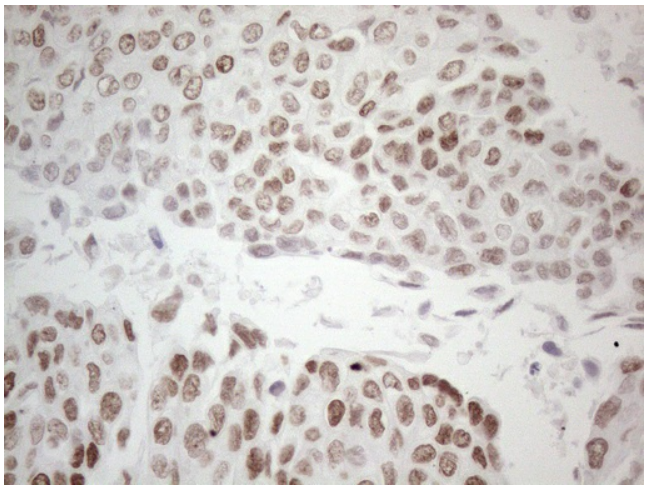
Immunohistochemical staining of paraffin-embedded at margins of adenocarcinoma of human breast tissue using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50 and detection was done with HRP secondary and DAB chromogen. Strong nuclear stain is seen in the epithelial cells.



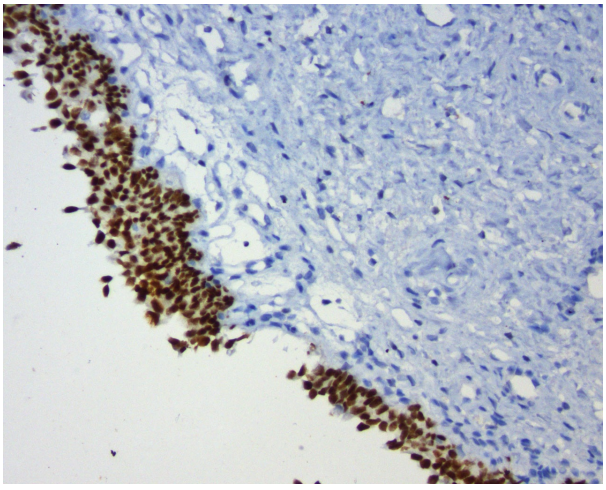
Immunohistochemical staining of paraffin-embedded human kidney tissue within the normal limits using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50, detection was done with HRP secondary and DAB chromogen. Weak nuclear stain is seen in the tubule epithelial cells of the kidney.



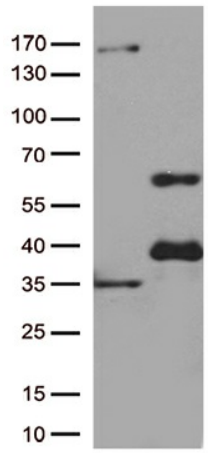
Immunohistochemical staining of paraffin-embedded carcinoma of human prostate tissue using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50 and detection was done with HRP secondary and DAB chromogen. Stong nuclear stain was seen in the tumor cells.



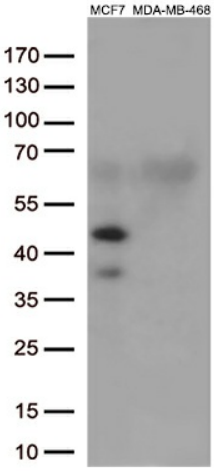
Immunohistochemical staining of paraffin-embedded human urothelial carcinoma using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50 and detection was done with HRP secondary and DAB chromogen. Strong nuclear stain is seen in the tumor cells.



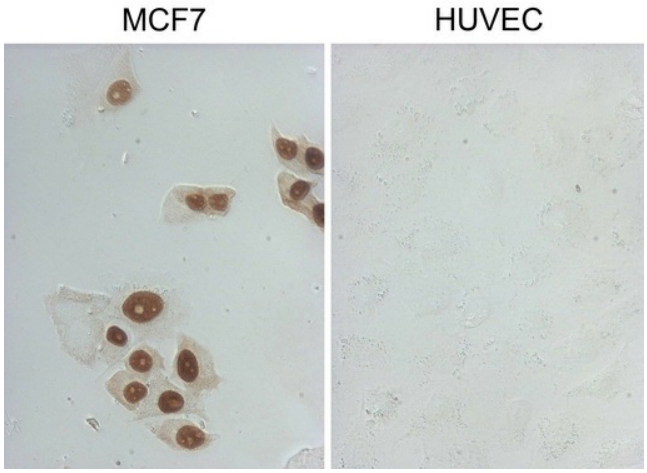
Immunohistochemical staining of paraffin-embedded human bladder cancer using anti-GATA3 clone UMAB210 at 1:200 dilution of 1 mg/mL and detection with Polink2 Broad HRP DAB. [UM800110] requires heat-induced epitope retrieval with ACCEL (pH8.7) biocare pressure cooker at 110°C for 3minutes. The image shows nuclear staining in tumor cells.



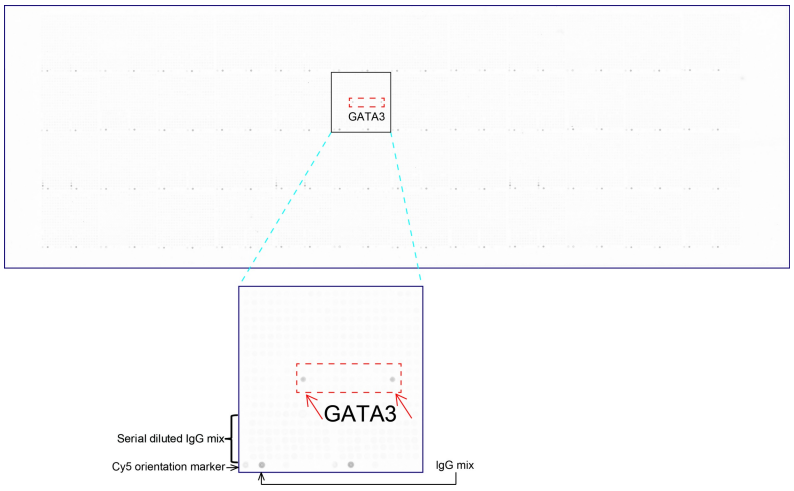
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GATA3 ([RC211904], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GATA3 (1:500).



Western blot analysis of extracts (35ug) from 2 different cell by using anti-GATA3 monoclonal antibody (1:500).



Immunocytochemistry staining of MCF-7 cells using anti-GATA3 mouse monoclonal antibody ([UM800110]) (Left). The right is negative control. (1:2000)



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-GATA3 mouse monoclonal antibody ([UM800110]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification (1:100).