

Product datasheet for **UM800110CF**

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:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	GATA binding protein 3
Database Link:	NP_001002295 Entrez Gene 14462 Mouse Entrez Gene 85471 Rat Entrez Gene 2625 Human P23771

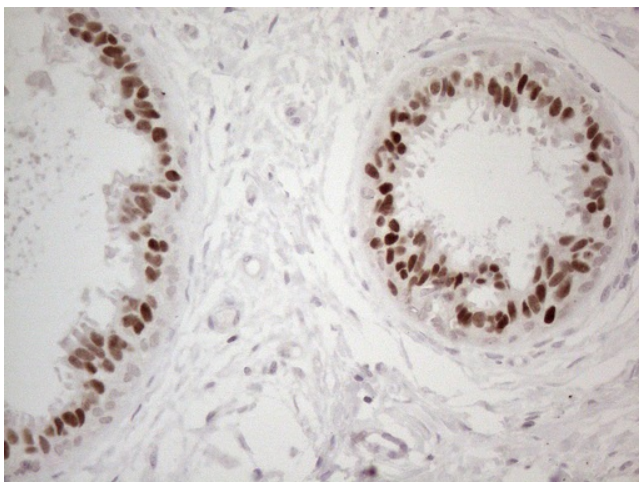
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Background: This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia. [provided by RefSeq, Nov 2009]

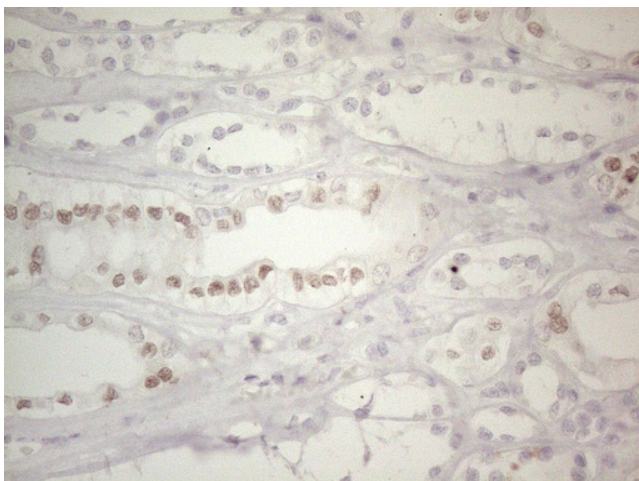
Synonyms: HDR; HDRS

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

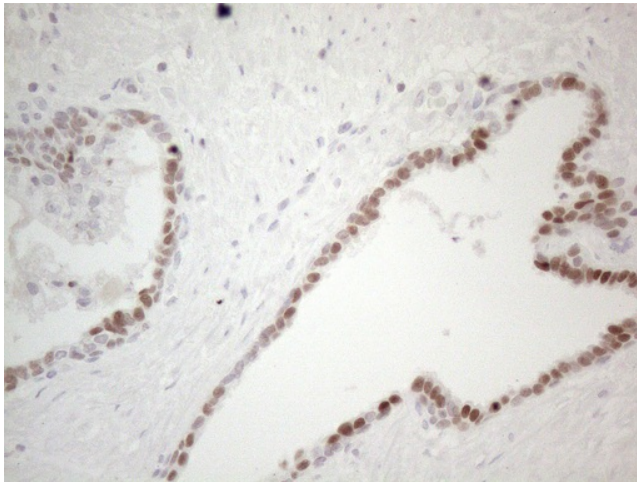
Product images:



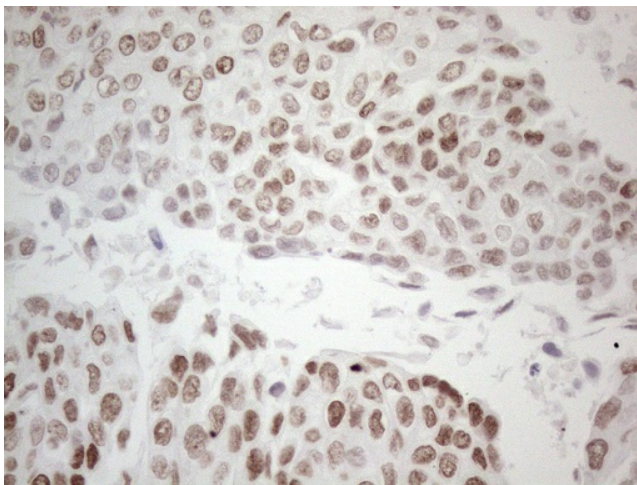
Immunohistochemical staining of paraffin-embedded at margins of adenocarcinoma of human breast tissue using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50 and detection was done with HRP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



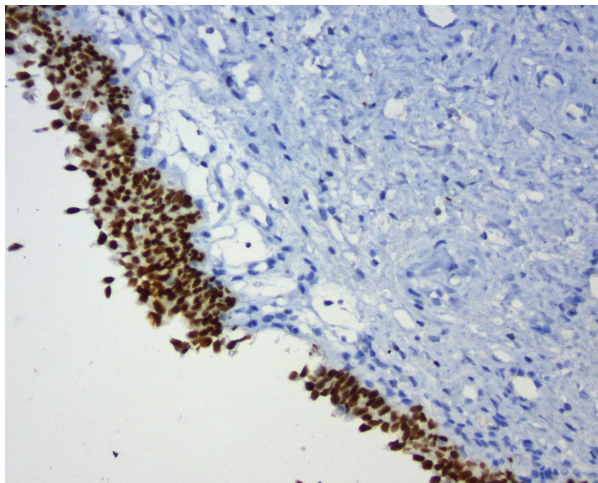
Immunohistochemical staining of paraffin-embedded human kidney tissue within the normal limits using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50, detection was done with HRP secondary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



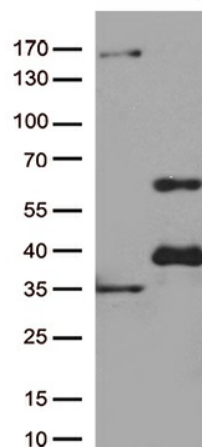
Immunohistochemical staining of paraffin-embedded carcinoma of human prostate tissue using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50 and detection was done with HRP secondary and DAB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



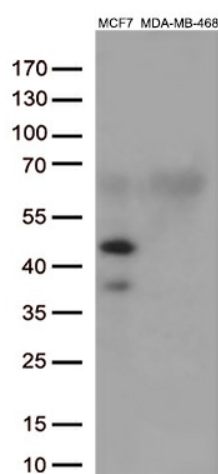
Immunohistochemical staining of paraffin-embedded human urothelial carcinoma using anti-GATA3 mouse monoclonal antibody. HIER pretreatment was done with 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 minutes. [UM800110] was diluted 1:50 and detection was done with HRP secondary and DAB chromogen.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



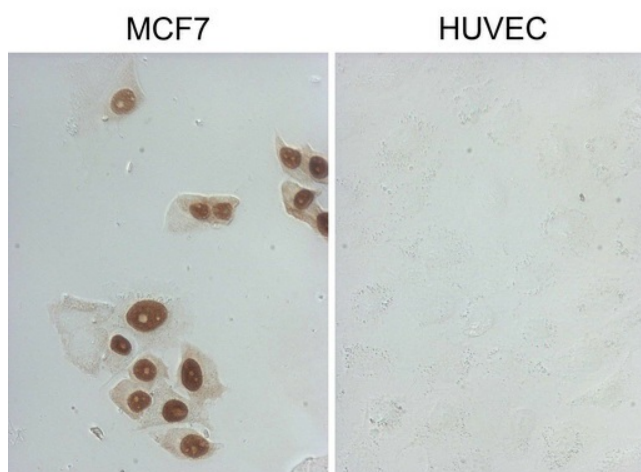
Immunohistochemical staining of paraffin-embedded human bladder cancer using anti-GATA3 clone UMAB210 at 1:200 dilution of 1 mg/mL and detection with Polink2 Broad HRP DAB. [UM800110] requires heat-induced epitope retrieval with ACCEL (pH8.7) biocare pressure cooker at 110°C for 3minutes. The image shows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



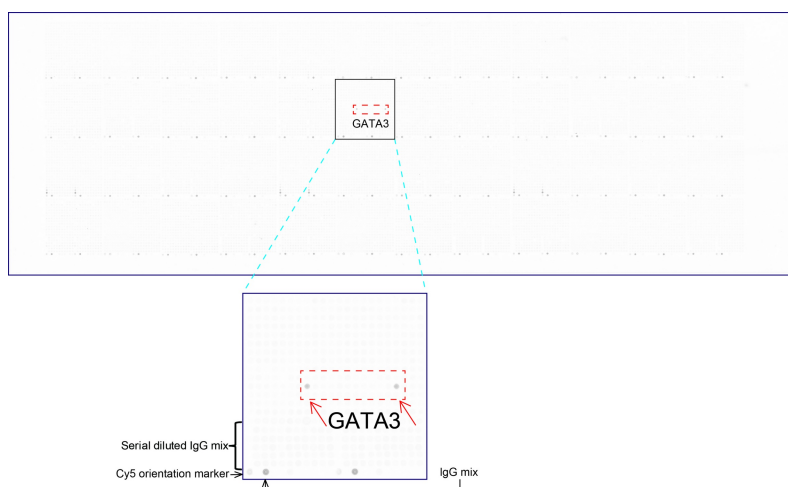
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GATA3 ([RC211904], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GATA3 (1:500).



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).