

Product Name: KD-Validated Gata Binding Protein 3 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00791

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 47.9kDa

Antigen Information

Gene Name	GATA3
Alternative Names	GATA3; GATA Binding Protein 3; HDR; Trans-Acting T-Cell-Specific Transcription Factor GATA-3; GATA-Binding Factor 3; GATA-Binding Protein 3; HDRS
Gene ID	2625.0
SwissProt ID	P23771
Immunogen	A synthesized peptide derived from human GATA3

Background

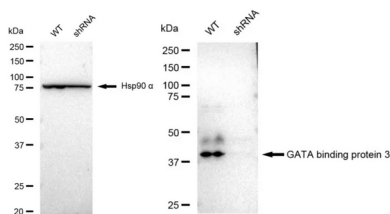
This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects

in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia. [provided by RefSeq, Nov 2009]

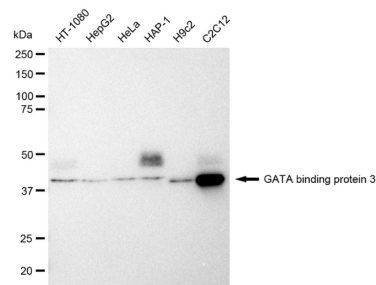
Research Area

Immunology, Epigenetics and Nuclear Signaling, Stem Cells, Developmental Biology

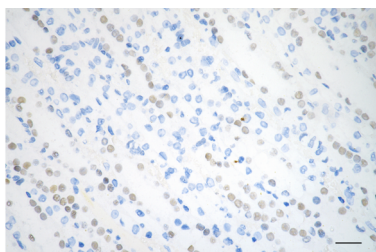
Image Data



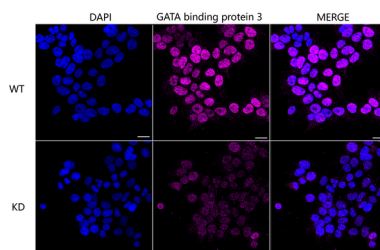
Western blotting analysis using GATA binding protein 3 antibody (KVA00791). GATA binding protein 3 expression in wild type (WT) and GATA binding protein 3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with GATA binding protein 3 antibody (KVA00791, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



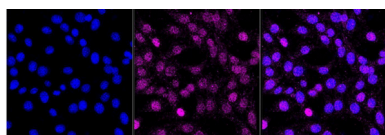
Western blotting analysis using GATA binding protein 3 antibody (KVA00791). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GATA binding protein 3 antibody (KVA00791, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



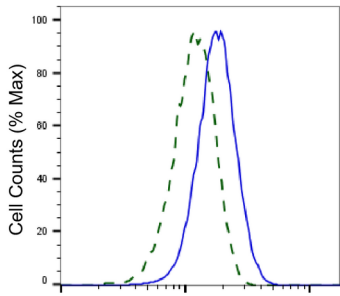
Immunohistochemistry was performed on paraffin-embedded mouse kidney using GATA binding protein 3 antibody (KVA00791, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using GATA binding protein 3 antibody (KVA00791, 1:1,000), Top panel: wild-type (WT); Bottom panel: GATA binding protein 3 shRNA knockdown (KD). Nuclei were stained blue with DAPI; GATA binding protein 3 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

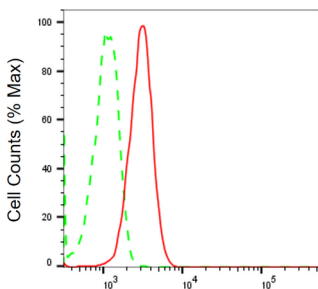


Immunocytochemical staining of C2C12 cells with GATA binding protein 3 antibody (KVA00791, 1:1,000). Nuclei were stained blue with DAPI; GATA binding protein 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



GATA binding protein 3-Alexa Fluor® 647

Validation of GATA binding protein 3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with GATA binding protein 3 antibody (KVAAb00791, 1:2,000) and analyzed using BD flow cytometer.



Gata Binding Protein 3-Alexa Fluor® 647

Flow cytometric analysis of gata binding protein 3 expression in C2C12 cells using gata binding protein 3 antibody (KVAAb00791, 1:2,000). Green, isotype control; red, gata binding protein 3.