Data Sheet (Cat.No.TMAB-00880)

TargetMol

Anti-HOXA10 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 42 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

1. U-937 cells were fixed with 4% PFA for 10 min at room temperature,permeabilized with 90% ice-cold methanol for 20 min at room temperature,and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with HOXA10 Antibody (TMAB-00880) at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).
2. Paraformaldehyde-fixed, paraffin embedded (rat testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HOXA10) Polyclonal Antibody, Unconjugated (TMAB-00880) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (mouse testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HOXA10) Polyclonal Antibody, Unconjugated (TMAB-00880) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAb staining.
4. Blank control (black line): A431. Primary Antibody (green line): Rabbit Anti-HOXA10 antibody (TMAB-00880)
Dilution: 1 μg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 μg/Test.
Isotype control (orange line): Normal Rabbit IgG
Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
5. Blank control (black line): NIH/3T3. Primary Antibody (green line): Rabbit Anti-HOXA10 antibody (TMAB-00880)
Dilution: 1 μg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 μg/Test.
Isotype control (orange line): Normal Rabbit IgG
Protocol
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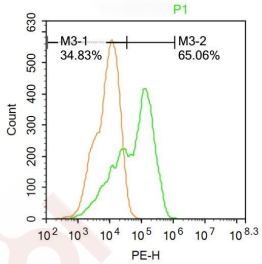

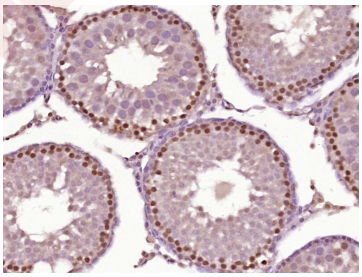

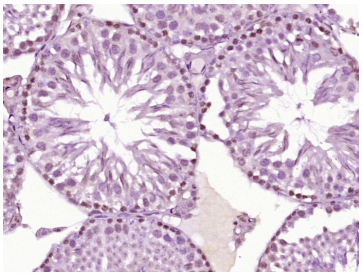

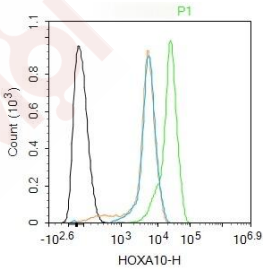

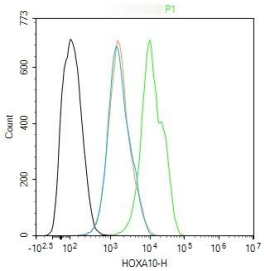

Application:	FCM,IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1ug/test

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human HOXA10
Antigen Species:	Human
Gene ID:	3206
Uniprot ID:	P31260
Synonyms:	HOXA 10;HOX1H;Homeobox protein 1H;Homeobox protein Hox A10;HOX 1H;HOXA10 protein; MGC12859;Centaurin alpha 1 like;Homeobox A10;Homeobox protein HOXA10;HOX 1.8;HOX A10;HOX 1;Homeo box A10;HOX1;HOX1.8
Biology Area:	HOX,Other factors

Research Background

In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor that may regulate gene expression, morphogenesis, and differentiation. More specifically, it may function in fertility, embryo viability, and regulation of hematopoietic lineage commitment. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the downstream homeobox A9 (HOXA9) gene. [provided by RefSeq, Mar 2011].

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