

Anti-FOXN1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Dog, Pig, Cow, Horse, Rabbit)
Molecular Weight:	Theoretical: 69 kDa. Actual: 69 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-FOXN1 Polyclonal Antibody, Unconjugated (TMAB-00706) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Sample: Thymus (Rat) Lysate at 40 µg
 Primary: Anti-FOXN1 (TMAB-00706) at 1/300 dilution
 Secondary: HRP conjugated Goat-Anti-rabbit IgG (secondary antibody) at 1/5000 dilution
 Predicted band size: 69 kDa
 Observed band size: 69 kDa

3. Paraformaldehyde-fixed, paraffin embedded (Mouse skin); 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 (FOXN1) Polyclonal Antibody, Unconjugated (TMAB-00706) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Blank control: Hela.
 Primary Antibody (green line): Rabbit Anti-FOXN1 antibody (TMAB-00706)

Verified Activity:

Dilution: 1 µg/10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG.
 Secondary Antibody: Goat anti-rabbit IgG-AF647
 Dilution: 1 µg/test.

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 room temperature. 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.

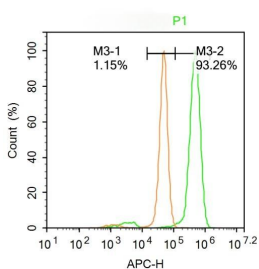
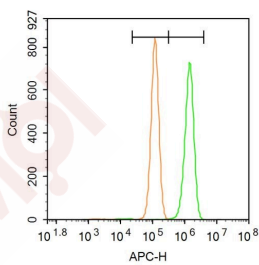
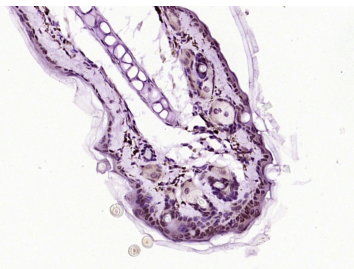
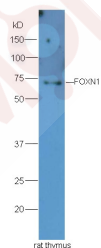
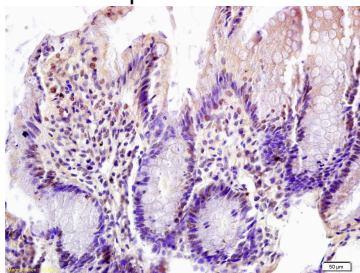
5. Blank control (Black line): Hela (Black).
 Primary Antibody (green line): Rabbit Anti-FOXN1 antibody (TMAB-00706)

Dilution: 1 µg/10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG.
 Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647
 Dilution: 1 µg/test.

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 room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at -20°C. Cells stained with

Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.



Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:50-200; FCM: 1ug/Test

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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 FOXN1

Antigen Species: Human

Gene ID: 8456

Uniprot ID: O15353

Synonyms: Forkhead box N1;RONU;WHN;FKHL20;Rowett nude;Winged helix nude;Transcription factor winged-helix nude;Winged-helix transcription factor nude;Forkhead box protein N1;FOXN 1

Biology Area: FOXN,Non-CD

Research Background

Mutations in the winged-helix transcription factor gene at the nude locus in mice and rats produce the pleiotropic phenotype of hairlessness and athymia, resulting in a severely compromised immune system. This gene is orthologous to the mouse and rat genes and encodes a similar DNA-binding transcription factor that is thought to regulate keratin gene expression. A mutation in this gene has been correlated with T-cell immunodeficiency, the skin disorder congenital alopecia, and nail dystrophy. Alternative splicing in the 5' UTR of this gene has been observed. [provided by RefSeq, Jul 2008].

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481