

Anti-TCF7L2 Antibody (5A617)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 68 kDa. Actual: 62 kDa.
Clone:	5A617
Purification:	Protein A purified

Applications

1. Blank control (black line): HepG2.
Primary Antibody (green line): Mouse Anti-TCF7L2 antibody (TMAB-13428)
Dilution:1:50;
Secondary Antibody (white blue line): Goat anti-Mouse 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. Acquisition of 20,000 events was performed.

2. 4% Paraformaldehyde-fixed HepG2 (H) cell; Triton X-100 at r. T. for 20 min; Antibody incubation with (TCF7L2) monoclonal Antibody, unconjugated (TMAB-13428) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nuclei.

3. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TCF7L2 Monoclonal Antibody, Unconjugated (TMAB-13428) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TCF7L2 Monoclonal Antibody, Unconjugated (TMAB-13428) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TCF7L2 Monoclonal Antibody, Unconjugated (TMAB-13428) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded Human Glioma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TCF7L2 Monoclonal Antibody, Unconjugated (TMAB-13428) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TCF7L2 Monoclonal Antibody, Unconjugated (TMAB-13428) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

Verified Activity:

A DRUG SCREENING EXPERT

8. 25 µg total protein per lane of various lysates (see on figure) probed with TCF7L2 monoclonal antibody, unconjugated (TMAB-13428) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.

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

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

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. 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 TCF7L2

Antigen Species: Human

Gene ID: 6934

Uniprot ID: Q9NQB0

Research Background

TCF-4, transcription factor 4, is a basic helix-turn-helix transcription factor. This protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. The gene for TCF-4 is expressed predominantly in pre-B-cells, although it is found in other tissues as well. Multiple alternatively spliced transcript variants that encode different proteins have been described. TCF4, also known as TCF7L2, is expressed widely during development. Gene targeting study indicates that it is required to maintain the crypt stem cells of the small intestine. TCF4 has many different splicing isoforms and they are expressed differentially in tissues and in cancers of different stages. Studies also indicate that variant of the TCF4 gene confers an increased risk of type 2 diabetes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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