

TCF3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1365a**Specification**

TCF3 Antibody - Product Information

Application	WB, FC, E
Primary Accession	P15923
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	67.6kDa KDa

Description

Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation. Dimers bind DNA on E-box motifs: 5'-CANNTG-3'. Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer.

Immunogen

Purified recombinant fragment of human TCF3 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

TCF3 Antibody - Additional Information

Gene ID 6929

Other Names

Transcription factor E2-alpha, Class B basic helix-loop-helix protein 21, bHLHb21, Immunoglobulin enhancer-binding factor E12/E47, Immunoglobulin transcription factor 1, Kappa-E2-binding factor, Transcription factor 3, TCF-3, Transcription factor ITF-1, TCF3, BHLHB21, E2A, ITF1

Dilution

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

E~~N/A

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TCF3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TCF3 Antibody - Protein Information

Name TCF3**Synonyms** BHLHB21, E2A, ITF1**Function**

Transcriptional regulator involved in the initiation of neuronal differentiation and mesenchymal to epithelial transition (By similarity). Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation (By similarity). Together with TCF15, required for the mesenchymal to epithelial transition (By similarity). Dimers bind DNA on E-box motifs: 5'-CANNTG-3' (By similarity). Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer (PubMed:2493990). Binds to IEB1 and IEB2, which are short DNA sequences in the insulin gene transcription control region (By similarity).

Cellular Location

Nucleus.

TCF3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

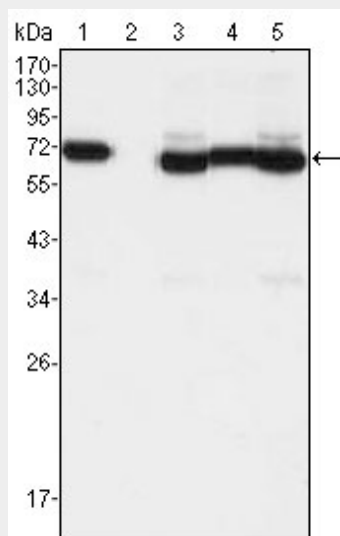
TCF3 Antibody - Images

Figure 1: Western blot analysis using TCF3 mouse mAb against A549 (1), A431 (2), HeLa (3), PANC-1 (4) and PC-3 (5) cell lysate.

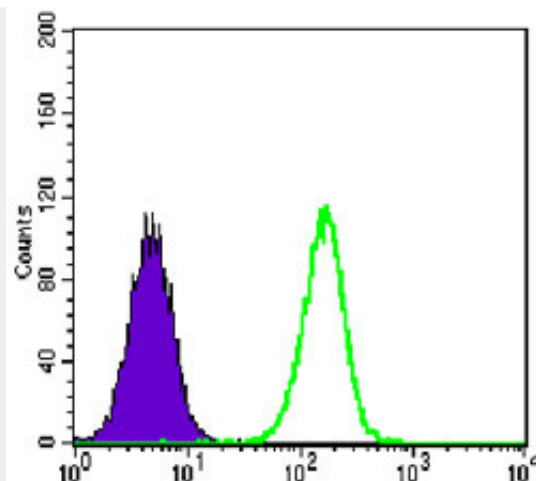


Figure 2: Flow cytometric analysis of A549 cells using anti-TCF3 mAb (green) and negative control (purple).

TCF3 Antibody - References

1. J Biol Chem. 2000 Oct 27;275(43):33567-73. 2. Mol Cell Biol. 2001 Mar;21(5):1866-73. 3. J Biol Chem. 2003 Jan 24;278(4):2370-6. Epub 2002 Nov 14.