10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TCF3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1365a

Specification

TCF3 Antibody - Product Information

Application	**WB, FC**
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

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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 Cytomety
- Cell Culture

TCF3 Antibody - Images

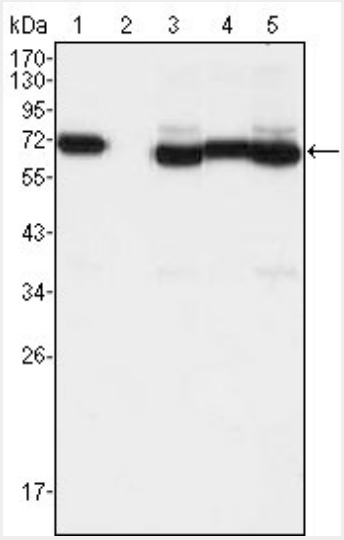


Figure 1: Western blot analysis using TCF3 mouse mAb against A549 (1), A431 (2), Hela (3), PANC-1 (4) and PC-3 (5) cell lysate.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

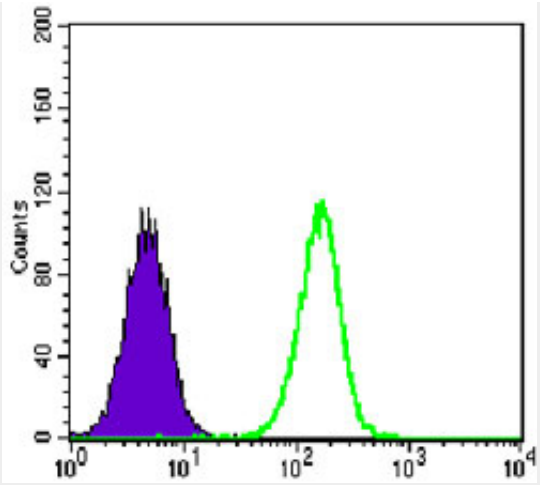


Figure 2: Flow cytometric analysis of A549 cells using anti-TCF3 mAb (green) and negative control (purple).

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.