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TCF3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1365a

Product Information

Application	WB, FC, E
Primary Accession	P15923
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6B8
Isotype	IgG1
Calculated MW	67600
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.

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.

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.

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.

Images

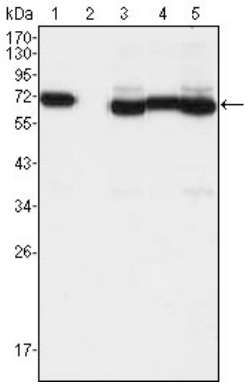


Figure 1: Western blot analysis using TCF3 mouse mAb against A549 (1), A431 (2), Hela (3), PANC-1 (4) and PC-3 (5) cell lysate.

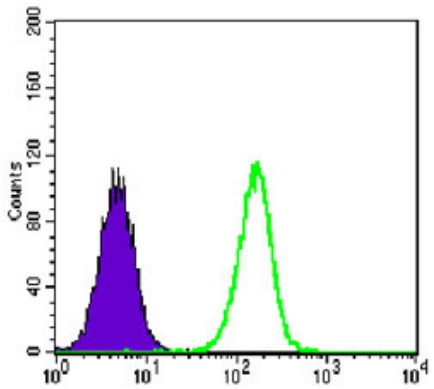


Figure 2: Flow cytometric analysis of A549 cells using anti-TCF3 mAb (green) and negative control (purple).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.