

# TCF3 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1365a

## Product Information

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<b>Application</b>	WB, FC, E
<b>Primary Accession</b>	<a href="#">P15923</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	6B8
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	67600
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human TCF3 expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	6929
<b>Other Names</b>	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
<b>Dilution</b>	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~N/A
<b>Storage</b>	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.
<b>Precautions</b>	TCF3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TCF3
<b>Synonyms</b>	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

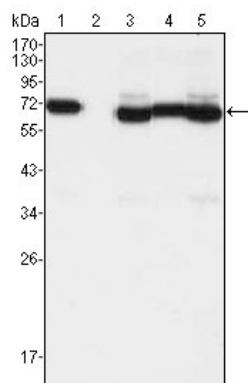


Figure 1: Western blot analysis using TCF3 mouse mAb against A549 (1), A431 (2), HeLa (3), PANC-1 (4) and PC-3 (5) cell lysate.

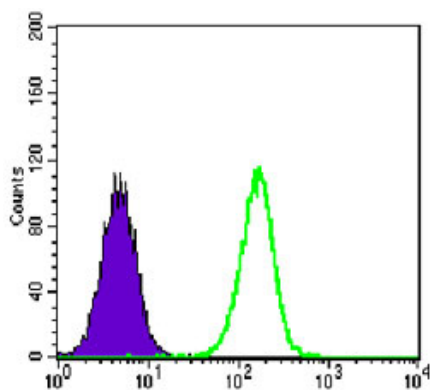


Figure 2: Flow cytometric analysis of A549 cells using anti-TCF3 mAb (green) and negative control (purple).

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