

Anti-TCF3 Antibody

Catalog # AP51551

Product Information

Application	WB, IHC
Primary Accession	P15923
Reactivity	Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67600

Additional Information

Gene ID	6929
Other Names	BHLHB21; E2A; ITF1; 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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human TCF3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

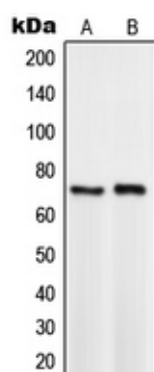
Protein Information

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).

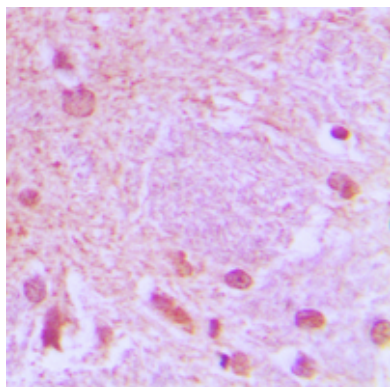
References

Kamps M.P.,et al.Cell 60:547-555(1990).
Nourse J.,et al.Cell 60:535-545(1990).
Grimwood J.,et al.Nature 428:529-535(2004).
Murre C.,et al.Cell 56:777-783(1989).
Henthorn P.,et al.Nucleic Acids Res. 18:677-677(1990).

Images



Western blot analysis of TCF3 expression in HeLa (A), BYDP (B) whole cell lysates. (Predicted band size: 67 kD; Observed band size: 68 kD)



Immunohistochemical analysis of TCF3 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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