Product name: Anti-TCF3 / E2A antibody ab69999

Description: Rabbit polyclonal to TCF3 / E2A

Host species: Rabbit

Specificity: Detects endogenous levels of total TCF3/E2A protein.

Tested applications: Suitable for: WB, ELISA, IHC-P

Species reactivity: Reacts with: Mouse, Human

Predicted to work with: Rat

Immunogen: Synthesized peptide derived from the C terminus of human TCF3/E2A

Positive control: WB: Extracts from 293 cells IHC-P: Human brain tissue

Properties:

Form: Liquid

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS

Purity: Immunogen affinity purified

Purification notes: Affinity purified from rabbit antiserum by affinity chromatography, using epitope specific immunogen.

Clonality: Polyclonal

Isotype: IgG

Applications:

Our Abpromise guarantee covers the use of ab69999 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function

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.

Involvement in disease

Note=Chromosomal aberrations involving TCF3 are cause of forms of pre-B-cell acute lymphoblastic leukemia (B-ALL). Translocation t(1;19)(q23;p13.3) with PBX1; Translocation t(17;19)(q22;p13.3) with HLF. Inversion inv(19)(p13;q13) with TFPT.

Sequence similarities

Contains 1 basic helix-loop-helix (bHLH) domain.

Domain

the 9aaTAD motif is a transactivation domain present in a large number of yeast and animal transcription factors.

Post-translational modifications

Phosphorylated following NGF stimulation.

Cellular localization

Nucleus.

Images

All lanes: Anti-TCF3 / E2A antibody (ab69999) at 1/500 dilution

Lane 1: Extracts from 293 cells, minus immunising peptide

Lane 2: Extracts from 293 cells, plus immunising peptide 5µg

Lysates/proteins at 5 µg per lane.

Predicted band size: 68 kDa

Observed band size: 68 kDa

Western blot - Anti-TCF3 / E2A antibody (ab69999)
ab69999, at a 1/50 dilution, staining human TCF3/E2A in brain, using Immunohistochemistry, Formalin/PFA fixed Paraffin embedded tissue, minus immunising peptide (left image) and plus immunising peptide (right image).

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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