



Rabbit Anti-phospho-TCF3 (Ser39) antibody

SL4662R

Product Name:	phospho-TCF3 (Ser39)
Chinese Name:	磷酸化转录因子3抗体
Alias:	TCF3/E2A(phospho Ser39); p-TCF3(phospho Ser39); p-E47(phospho Ser39); p-E47(phospho Ser39); bHLHb21; Class B basic helix-loop-helix protein 21; E12; E2A; E2A immunoglobulin enhancer binding factors E12/E47; E47; Helix loop helix protein HE47; Immunoglobulin enhancer-binding factor E12/E47; immunoglobulin transcription factor 1; ITF1; Kappa E2 binding factor; Kappa-E2-binding factor; MGC129647; MGC129648; Negative vitamin D response element binding protein; TCF-3; TCF3; TFE2; TFE2_MOUSE; transcription factor 3; Transcription factor E2-alpha; Transcription factor ITF-1; VDIR; VDR interacting repressor.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	67kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human TCF3 around the phosphorylation site of Ser39:PA(p-S)LA
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

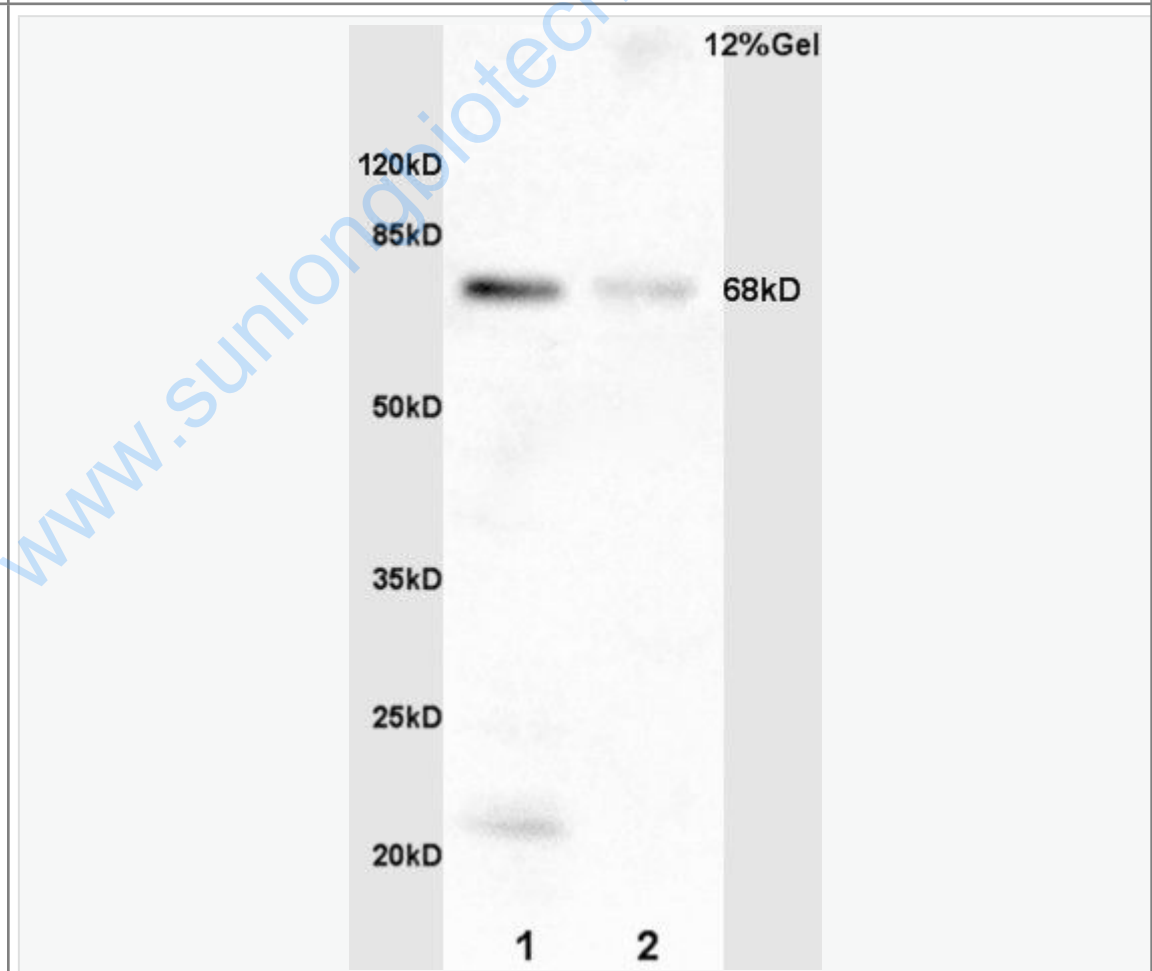
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation. Dimers bind DNA on E-box motifs: 5'-CANNTG-3'. Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer.</p> <p>Function: Transcriptional regulator. Involved in the initiation of neuronal differentiation. 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. Binds to IEB1 and IEB2, which are short DNA sequences in the insulin gene transcription control region.</p> <p>Subunit: Forms a heterodimer with TWIST2. Forms a heterodimer with NEUROD1; the heterodimer is inhibited in presence of ID2, but not NR0B2, to E-box element. Isoform E12 interacts with RALGAPA1 and FIGLA. Interacts with EP300. Efficient DNA binding requires dimerization with another bHLH protein (By similarity). Homodimer. Heterodimer. Interacts with PTF1A, TGFB1I1 and UBE2I. Component of a nuclear TAL-1 complex composed at least of CBFA2T3, LDB1, TAL1 and TCF3. Interacts with NEUROD2.</p> <p>Subcellular Location: Nucleus.</p> <p>Post-translational modifications: Phosphorylated following NGF stimulation (By similarity).</p> <p>Similarity: Contains 1 bHLH (basic helix-loop-helix) domain.</p> <p>SWISS: P15923</p> <p>Gene ID: 6929</p> <p>Database links: Entrez Gene: 6929Human Entrez Gene: 21423Mouse Entrez Gene: 171046Rat</p>

[Oimim: 147141](#)Human
[SwissProt: P15923](#)Human
[SwissProt: P15806](#)Mouse
[SwissProt: P21677](#)Rat
[Unigene: 371282](#)Human
[Unigene: 3406](#)Mouse
[Unigene: 10290](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Embryo (Mouse) Lysate at 40 ug

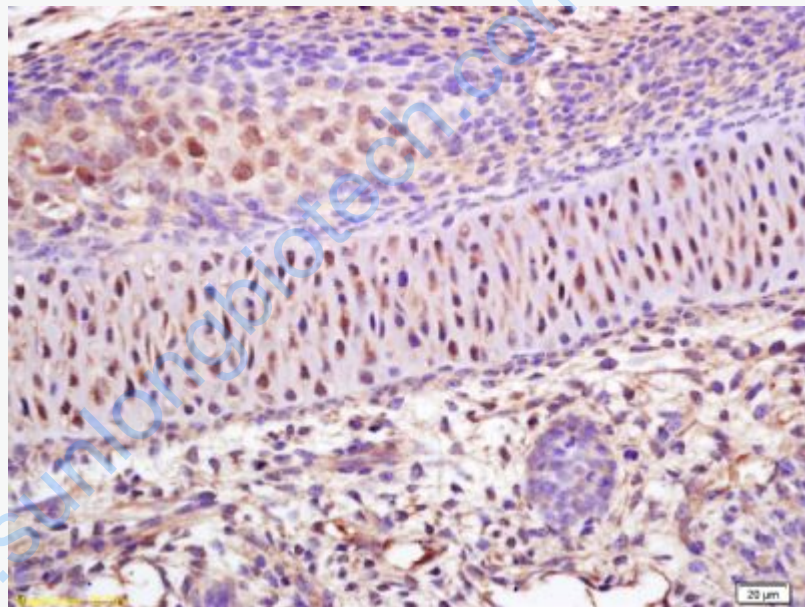
Brain (Rat) Lysate at 40 ug

Primary: Anti-phospho-TCF3 (Ser39) (SL4662R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL4662R) at 1/5000 dilution

Predicted band size: 67 kD

Observed band size: 68 kD



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-phospho-TCF3/E2A/E47(Ser39) Polyclonal Antibody,

Unconjugated(SL4662R) 1:200, overnight at 4°C, followed by conjugation to the

	secondary antibody(SP-0023) and DAB(C-0010) staining
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