



E2A (phospho Thr355) Polyclonal Antibody

Catalog No	YP-Ab-01416
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	TCF3
Immunogen	The antiserum was produced against synthesized peptide derived from human E2A around the phosphorylation site of Thr355. AA range:321-370
Specificity	Phospho-E2A (T355) Polyclonal Antibody detects endogenous levels of E2A protein only when phosphorylated at T355.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	E2A;TCF3;Transcription factor E2-alpha;BHLHB21;ITF1;Class B basic helix-loop-helix protein 21;Immunoglobulin enhancer-binding factor E12/E47; Immunoglobulin transcription factor 1;Kappa-E2-binding factor;Transcription facto
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus .
Tissue Specificity	Lymphoma,Muscle,PCR rescued clones,
Function	disease: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.,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.,PTM:Phosphorylated following NGF



stimulation.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,
subunit:Efficient DNA binding requires dimerization with another bHLH protein.
Forms a heterodimer with ASH1 and TWIST2. Isoform E12 interacts with GRIPE
and FIGLA (By similarity). Interacts with PTF1A and TGFB111.

Background

This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been

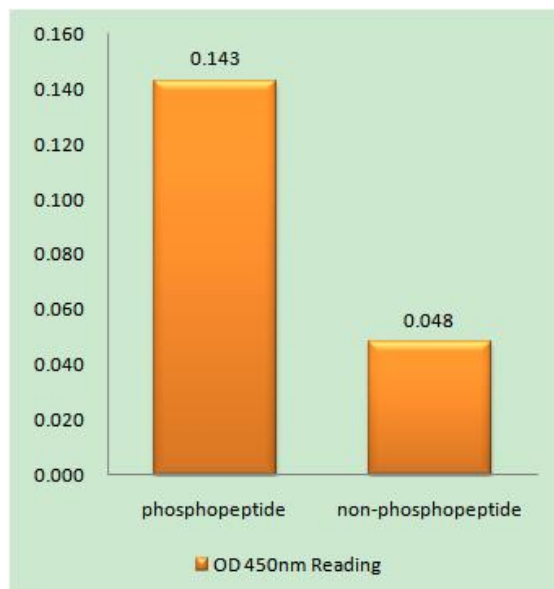
matters needing attention

Avoid repeated freezing and thawing!

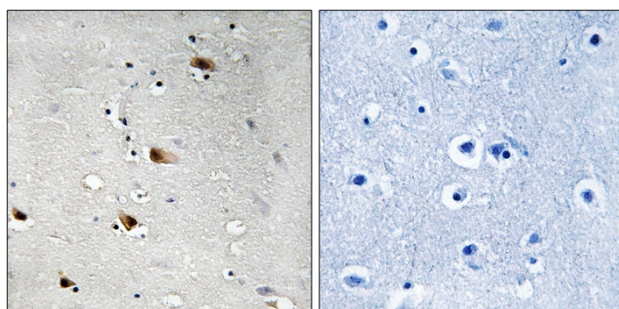
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Enzyme-Linked Immunosorbent Assay
(Phospho-ELISA) for Immunogen Phosphopeptide
(Phospho-left) and Non-Phosphopeptide
(Phospho-right), using E2A (Phospho-Thr355)
Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using E2A (Phospho-Thr355) Antibody. The picture on the right is blocked with the phosphopeptide.