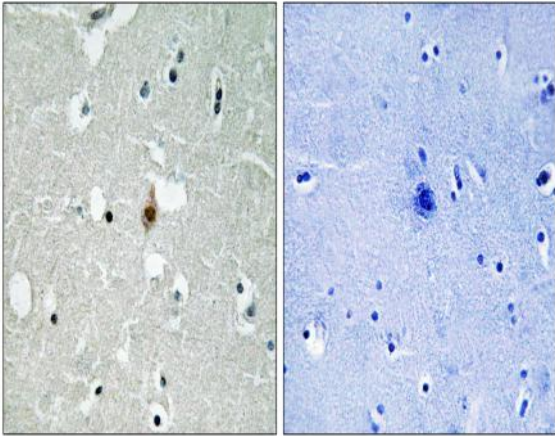


E2A Polyclonal Antibody

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| Catalog No : | YT1441 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | IHC;IF;ELISA |
| Target : | E2A |
| Fields : | >>Signaling pathways regulating pluripotency of stem cells;>>Human T-cell leukemia virus 1 infection;>>Transcriptional misregulation in cancer |
| Gene Name : | TCF3 |
| Protein Name : | Transcription factor E2-alpha |
| Human Gene Id : | 6929 |
| Human Swiss Prot No : | P15923 |
| Mouse Gene Id : | 21423 |
| Mouse Swiss Prot No : | P15806 |
| Rat Gene Id : | 171046 |
| Rat Swiss Prot No : | P21677 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human E2A. AA range:321-370 |
| Specificity : | E2A Polyclonal Antibody detects endogenous levels of E2A protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200 |

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| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 68kD |
| Cell Pathway : | Stem cell pathway; WNT;WNT-T CELL;β-Catenin; Protein_Acetylation |
| Background : | <p>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</p> |
| Function : | <p>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.</p> |
| Subcellular Location : | Nucleus . |
| Expression : | Lymphoma,Muscle,PCR rescued clones, |

Products Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using E2A Antibody. The picture on the right is blocked with the synthesized peptide.