



Anti-PAX5 (aa 192-301) polyclonal antibody (DPAB-DC2095)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

This gene encodes a member of the paired box (PAX) family of transcription factors. The central feature of this gene family is a novel, highly conserved DNA-binding motif, known as the paired box. Paired box transcription factors are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. This gene encodes the B-cell lineage specific activator protein that is expressed at early, but not late stages of B-cell differentiation. Its expression has also been detected in developing CNS and testis and so the encoded protein may also play a role in neural development and spermatogenesis. This gene is located at 9p13, which is involved in t(9;14)(p13;q32) translocations recurring in small lymphocytic lymphomas of the plasmacytoid subtype, and in derived large-cell lymphomas. This translocation brings the potent E-mu enhancer of the IgH gene into close proximity of the PAX5 promoter, suggesting that the deregulation of transcription of this gene contributes to the pathogenesis of these lymphomas. Alternative splicing results in multiple transcript variants encoding different isoforms.

Immunogen

PAX5 (NP_057953, 192 a.a. ~ 301 a.a) partial recombinant protein with GST tag. The sequence is
 ADTNKRKRDEGIQESPVPNGHSLPGRDFLRKQMRGDLFTQQQLEVLDRVFERQHYSDIFT
 TTEPIKPEQTTEYSAMASLAGGLDDMKANLASPTPADIGSSVPGPQSYPI

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer

50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PAX5 paired box 5 [Homo sapiens (human)]
Official Symbol	PAX5
Synonyms	PAX5; paired box 5; ALL3; BSAP; paired box protein Pax-5; paired domain gene 5; paired box homeotic gene 5; transcription factor PAX 5; B-cell lineage specific activator;
Entrez Gene ID	5079
Protein Refseq	NP_001267476
UniProt ID	Q02548
Chromosome Location	9p13
Pathway	C-MYB transcription factor network; Transcriptional misregulation in cancer;
Function	DNA binding; sequence-specific DNA binding transcription factor activity;
