

Recombinant Human PAX5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PAX5-3759H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

PAX5 MS Standard C13 and N15-labeled recombinant protein (NP_057953) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

42 kDa

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AA Sequence

MDLEKNYPTPRTSRTGHGGVNQLGGVFNVRPLPDVVRQRIVELAHQGVRPCDIS
 RQLRVSHGCVSKILGRYYETGSIKPGVIGGSKPKVATPKVVEKIAEYKRQNPTMFAW
 EIRDRLAERVCDNDTVPSVSSINRIIRTKVQQPPNQPVPASSHSIVSTGSVTQVSSV
 STDSAGSSYSISGILGITSPSADTNKRKRDEGIQESVPNGHSLPGRDFLRKQMRGD
 LFTQQQLEVLDRVFERQHYSIDIFTTTEPIKPEQTTEYSAMASLAGGLDDMKANLASP
 TPADIGSSVPGPQSYPIVTGRDLASTTLPGYPPHVPPAGQGSYSAPTTLTGMVPGSEF
 SGSPYSHQPQYSSYNDSWRFPNPGLLGSPYYSAAARGAAPPAAATAYDRHTRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PAX5 paired box 5 [Homo sapiens (human)]

Official Symbol PAX5

Synonyms PAX5; paired box 5; paired box gene 5 (B cell lineage specific activator protein), paired box gene 5 (B cell lineage specific activator); paired box protein Pax-5; B cell lineage specific activator; BSAP; paired box homeotic gene 5; transcription factor PAX 5; B cell specific activator protein; B-cell lineage specific activator; B-cell-specific transcription factor;

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Gene ID 5079

mRNA Refseq NM_016734

Protein Refseq NP_057953

MIM 167414

UniProt ID Q02548

SDS-PAGE



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