

Product datasheet for PH322785

OriGene Technologies, Inc.

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PAX5 (NM_016734) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: PAX5 MS Standard C13 and N15-labeled recombinant protein (NP_057953)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

or AA Sequence:

RC222785

Predicted MW: 42 kDa

Protein Sequence: >RC222785 representing NM_016734

Red=Cloning site Green=Tags(s)

MDLEKNYPTPRTSRTGHGGVNQLGGVFVNGRPLPDVVRQRIVELAHQGVRPCDISRQLRVSHGCVSKILG RYYETGSIKPGVIGGSKPKVATPKVVEKIAEYKRQNPTMFAWEIRDRLLAERVCDNDTVPSVSSINRIIR TKVQQPPNQPVPASSHSIVSTGSVTQVSSVSTDSAGSSYSISGILGITSPSADTNKRKRDEGIQESPVPN GHSLPGRDFLRKQMRGDLFTQQQLEVLDRVFERQHYSDIFTTTEPIKPEQTTEYSAMASLAGGLDDMKAN LASPTPADIGSSVPGPQSYPIVTGRDLASTTLPGYPPHVPPAGQGSYSAPTLTGMVPGSEFSGSPYSHPQ

YSSYNDSWRFPNPGLLGSPYYYSAAARGAAPPAAATAYDRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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

Concentration: $>0.05 \mu g/\mu L$ as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

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

RefSeq: NP 057953

RefSeq Size: 3650 RefSeq ORF: 1173

Synonyms: ALL3; BSAP

Locus ID: 5079





UniProt ID: Q02548 Cytogenetics: 9p13.2

Summary: 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

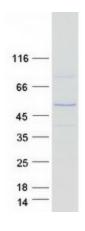
development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. This gene encodes the B-cell lineage specific activator protein that is expressed at early, but not late stages of B-cell differentiation. Its expression has also been detected in developing 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. [provided by RefSeq, Jul 2013]

Protein Families: Transcription Factors

Product images:



Coomassie blue staining of purified PAX5 protein (Cat# [TP322785]). The protein was produced from HEK293T cells transfected with PAX5 cDNA clone (Cat# [RC222785]) using MegaTran 2.0 (Cat# [TT210002]).