

Datasheet for ABIN7564074  
**PAXIP1 Protein (AA 1-1056) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PAXIP1
Protein Characteristics:	AA 1-1056
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAXIP1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Paxip1 Protein expressed in mammalien cells.
Sequence:	MSEPAPEVPE ELFREVKYYA VGDIDPQVIQ LLKAGKAKEV SYNALASHII SEDGDNPEVG EAREVFDLPV VKPSWVTLV QCGALLPVNG FSPESCQIFF GLTACLSQVS SEDRSALWAL VTFHGGSCQL NLNKKCTHLI VPEPKGEKYE RAVKRTSIKI VTPDWVLDV SEKRRKDEAF YHPRLIYEE EEEEEEGDN EEQDSQNEGS TEKSSVASSA VASPAEQPCS PKPRAEVSKG ELMFDDSSDS SPEKQERSLN WAPAEAPPLN TAQRRLPQGK GPGLINLCAN VPPVPGDILP PDMRGNLMAP GQNLQNSERS EILGTWSPAV RTLRNITNNA DIQQINRPSN VAHILQSLSA PTKSLEQQVA RGQQGHPNAS AVLFGQAKGA PETHVLQQHH PPQQPQQQHP ALHLQPQIMQ LQQQQQQQQ QQQQPQYPYQ PPSHQFPQQV HGHQFSQQQL QFPQQPLHPQ QQLHRPQQQL QPFQQQHALQ QQLHQLQQQ LQHHQLAQLQ QQQQQQHLL QQQQQQQQLQ RLQQQQQMQR QAAHLSQASQ ALQHQLVLPQQ PLQLSLQPPP QQQQQQLFG HDPAVEIPEE SFLGCVFAI ADYPEQMSDK QLLATWKRII QAHGGTVDPFTSRCTHLLC ASQVSSMYTQ ALRERKRCVT

## Product Details

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AHWLNTVLKK KKLMPHRAL HFPVAFPPGG KPCSQHISV TGFVDNDRDD LKLMAYLAGA  
KYTGYLCSRN TVLICKEPSG LKYEKAKEWR IPCVNAQWLG DILLGNFEAL RQVQYSRYTA  
FNMPDPFVPT PHLVLGLLDA WRTPVKVTAE LLMGVRLPPK LKPNEVANIQ PSSKRARIED  
LPPPTKLTTP ELTPLVLFTG FEPVQVQYI KKLYILGGEV AECTKKCTHL IASKVTRTVK  
FLTAISVVKH IVTPDWLEEC FKRQTFIDEQ NYILRDAEAE VLFSFSLEES LKRAHVSPFL  
KTKYFYITPG ICPSLATMKA IVECAGGKVL AKQPSFRKLM EHKQNKSLSE IILISCENDL  
HLCREYFARG IDVHNAEFVL TGVLQTLDY ESYKFN **Sequence without tag. The proposed  
Purification-Tag is based on experiences with the expression system, a different complexity  
of the protein could make another tag necessary. In case you have a special request, please  
contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

PAXIP1

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### Alternative Name:

Paxip1 ([PAXIP1 Products](#))

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### Background:

PAX-interacting protein 1 (PAX transactivation activation domain-interacting protein),FUNCTION: Involved in DNA damage response and in transcriptional regulation through histone methyltransferase (HMT) complexes such as the MLL2/MLL3 complex. Plays a role in

## Target Details

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early development. In DNA damage response is required for cell survival after ionizing radiation. In vitro shown to be involved in the homologous recombination mechanism for the repair of double-strand breaks (DSBs). Its localization to DNA damage foci requires Rnf8 and Ube2n. Recruits Tp53bp1 to DNA damage foci and, at least in particular repair processes, effective DNA damage response appears to require the association with Tp53bp1 phosphorylated by Atm. Together with Tp53bp1 regulates Atm association (By similarity). Proposed to recruit Pagr1 to sites of DNA damage and the Pagr1:Paxip1 complex is required for cell survival in response to DNA damage independently of the MLL2/MLL3 complex. However, this function has been questioned (PubMed:19124460, PubMed:26744420). Promotes ubiquitination of PCNA following UV irradiation and may regulate recruitment of polymerase eta and Rad51 to chromatin after DNA damage. Proposed to be involved in transcriptional regulation by linking MLL-containing histone methyltransferase (HMT) complexes to gene promoters by interacting with promoter-bound transcription factors such as Pax2. Associates with gene promoters that are known to be regulated by Kmt2d/Mll2 (By similarity). During immunoglobulin class switching in activated B-cells is involved in trimethylation of histone H3 at 'Lys-4' and in transcription initiation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus, this function appears to involve the recruitment of MLL-containing HMT complexes. Conflictingly, its function in transcriptional regulation during immunoglobulin class switching is reported to be independent of the MLL2/MLL3 complex (PubMed:20671152, PubMed:26744420). {ECO:0000250, ECO:0000269|PubMed:10908331, ECO:0000269|PubMed:12588986, ECO:0000269|PubMed:17925232, ECO:0000269|PubMed:19124460, ECO:0000269|PubMed:19414588, ECO:0000269|PubMed:20671152, ECO:0000269|PubMed:26744420}.

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Molecular Weight: 119.3 kDa

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UniProt: [Q6NZQ4](#)

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Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months