antibodies

# Datasheet for ABIN3094329 PAGR1 Protein (AA 1-254) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	PAGR1
Protein Characteristics:	AA 1-254
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAGR1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

### Product Details

Sequence:	MSLARGHGDT AASTAAPLSE EGEVTSGLQA LAVEDTGGPS ASAGKAEDEG EGGREETERE
	GSGGEEAQGE VPSAGGEEPA EEDSEDWCVP CSDEEVELPA DGQPWMPPPS EIQRLYELLA
	AHGTLELQAE ILPRRPPTPE AQSEEERSDE EPEAKEEEEE KPHMPTEFDF DDEPVTPKDS
	LIDRRRTPGS SARSQKREAR LDKVLSDMKR HKKLEEQILR TGRDLFSLDS EDPSPASPPL
	RSSGSSLFPR QRKY
	Sequence without tag. The proposed Strep-Tag is based on experience s 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.
Characteristics:	Key Benefits:
	Made in Germany - from design to production - by highly experienced protein experts.
	Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure
	correct folding and modification.

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- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein. 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.

#### Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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#### Product Details

Grade:

Crystallography grade

# Target Details

Target:	PAGR1
Alternative Name:	PAGR1 (PAGR1 Products)
Background:	PAXIP1-associated glutamate-rich protein 1 (Glutamate-rich coactivator interacting with SRC1)
	(GAS) (PAXIP1-associated protein 1) (PTIP-associated protein 1),FUNCTION: Its association
	with the histone methyltransferase MLL2/MLL3 complex is suggesting a role in epigenetic
	transcriptional activation. However, in association with PAXIP1/PTIP is proposed to function at
	least in part independently of the MLL2/MLL3 complex. Proposed to be recruited by PAXIP1 to
	sites of DNA damage where the PAGR1:PAXIP1 complex is required for cell survival in response
	to DNA damage independently of the MLL2/MLL3 complex (PubMed:19124460). However, its
	function in DNA damage has been questioned (By similarity). During immunoglobulin class
	switching in activated B-cells is involved in transcription regulation of downstream switch
	regions at the immunoglobulin heavy-chain (Igh) locus independently of the MLL2/MLL3
	complex (By similarity). Involved in both estrogen receptor-regulated gene transcription and
	estrogen-stimulated G1/S cell-cycle transition (PubMed:19039327). Acts as a transcriptional
	cofactor for nuclear hormone receptors. Inhibits the induction properties of several steroid
	receptors such as NR3C1, AR and PPARG, the mechanism of inhibition appears to be gene-
	dependent (PubMed:23161582). {ECO:0000250 UniProtKB:Q99L02,
	EC0:0000269 PubMed:19039327, EC0:0000269 PubMed:19124460,
	ECO:0000269 PubMed:23161582, ECO:0000305}.
Molecular Weight:	27.7 kDa
UniProt:	Q9BTK6
Application Details	

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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.

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## Application Details

During lysate production, the cell wall and other cellular components that are not required for
protein production are removed, leaving only the protein production machinery and the
mitochondria to drive the reaction. During our lysate completion steps, the additional
components needed for protein production (amino acids, cofactors, etc.) are added to produce
something that functions like a cell, but without the constraints of a living system - all that's
needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

### Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

#### Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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