

Datasheet for ABIN3129921

PKMYT1 Protein (AA 1-490) (Strep Tag)



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Quantity:	250 μg
Target:	PKMYT1
Protein Characteristics:	AA 1-490
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKMYT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Brand:	AliCE®
Sequence:	MTMPTEGTPP PLSGTPIPVP AYFRHAEPGF SLKRPGGLSR SLPPRPPAKG CIPVSRLFPP
	RTPGWHQPQP RRVSFLCETS EPLQSPGYDP SRPESFFQQN FQRLSRLGHG SYGEVFKVRS
	KEDGRLYAVK RYMSPFRGPK DRTRKLAEVG GHEKVGQHPH CVRLERAWEE GGILYLQTEL
	CGPSLQQHCE AWGASLPEAQ VWGYLRDILL ALDHLHSQGL VHLDVKPANI FLGPRGRCKL
	GDFGLLVELG SAGAGEAQEG DPRYMAPELL QGSYGTAADV FSLGLTILEV ACNMELPHGG
	EGWQQLRQGY LPPEFTAGLS SELRSVLAMM LEPDPQLRAT AEALLALPML RQPRPWNVLW
	YMAAEALSRG WALWQALVTL LCWLWHGLVH PASWLQPPGP PATPPGSPPC SPLLDSTLSS
	SWDNDSIGPS LSPETVLSRI TRRTSTPRGR YIPRDALDLT DVDSEPPRGP CPTFEPRNLL
	SLFEDSLDPA
	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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 posttranslational 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PKMYT1
Alternative Name:	Pkmyt1 (PKMYT1 Products)
Background:	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase (EC 2.7.11.1) (Myt1 kinase),FUNCTION: Acts as a negative regulator of entry into mitosis (G2 to M transition) by phosphorylation of the CDK1 kinase specifically when CDK1 is complexed to cyclins. Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation. May be involved in phosphorylation of CDK1 on 'Tyr-15' to a lesser degree, however tyrosine kinase activity is unclear and may be indirect. {ECO:0000250 UniProtKB:Q99640}.
Molecular Weight:	54.1 kDa
UniProt:	Q9ESG9
Pathways:	Mitotic G1-G1/S Phases, M Phase
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. 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.

Handling

	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months