# antibodies .- online.com





# PALLD Protein (AA 1-1408) (Strep Tag)



### Go to Product pag

### Overview

Quantity:	1 mg
Target:	PALLD
Protein Characteristics:	AA 1-1408
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PALLD protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

# **Product Details**

# Sequence:

MSETSSHDSF YDSLSDVQEE GKSADFFPGL SAFLSQEEIN KSLDLARRAI DSSETEDFDS
EKEISQIFSK SPISLCETPS HEEPKSGKQT SSERPQDSRR APVQPLTGDQ AERITSPGSK
RKPGVSPLLA SPSYIRSLRK AEKRGAKNPN PSSKPKTAQQ SKAGPQSQLC DKAASFIEEL
TSIFREAAKP RNRSPNGESS SPDSGYLSPK NQPSALMSAS ASQSPTADQL DQLEMDAEVK
QAQGSLCYQA HQASEETLPL AHIPHPQPQK ARHLPTAPRF IQKLRSQEVA EGSRVYLECR
VTGNPTPRVR WFCEGKELYN SPDVQIHCES GELHTLVIAE AFEDDTGRYT CLATNPSGSD
STSAEVFIEG ASSTDSDSES LSFISKAGAM PQAQKKTTSV SLTIGSSAPK TGVTTAVIQP
LSVPVQQAHS ATSYLCRPDG TTMGCLLPVF TKELQNTAAS EGQVVVLECR VRGAPPLQVQ
WFRQGSEIQD SPDFRILQKK PRSTAEPEEI CTLVIAESFP EDAGIFTCSA TNDYGSVTST
AQLVITSANN ENCSYDSTGE PNSDHFQHFP PPPPILETGS YELASQKPSE IQQVNSPNLG
FSMAALQMQF NTAERETNGV HPSHGVNGLI NGKAYGNKSP PTPTALLSPT KEPPPLLAKP
KLDPLKLQQL QNQVRLEQEA CAWPPAPPGV PCNSSSSGSS APPSPPFPPP PPAFPELAAC

ASPVPSEPMS ALASRATAMQ SSGSFNYARP KQFIAAQNLG PASGLPTPTS SPSSSSLPSP LSPTPRPFGR APGPPFVEPE AMWGPSSPSP PPPPPPVFSP SAAYPVPDVF PLPPPPPPLP SSTSHCASPA RFGPSQTPAA FLSALLPSQP PPVAVNALGL PKGVTPAGFP KKSSRTARIA SDEEIQGTKD AVIQDLERKL RFKEDLLNNG QPRLTYEERM ARRLLGADSA NVFNIQEPEE TAANQDAGAP RASVGGPLDG QKEYKVSSCE QRLISEIEYR LERSPVDESG DEVQDPDVPV ENATAPFFEM KLKHYKIFEG MPVTFTCRVA GNPKPKIYWF KDGKQISPKS DHYTIQRDLD GTCSLHTTAS TLDDDGNYTI MAANPQGRVS CTGRLMVQAV NQRGRSPRSP SGHPHARRPR SRSRDSGDEN EPIQERFFRP HFLQAPGDLT VQEGKLCRMD CKVSGLPTPD LSWQLDGKPI RPDSAHKMLV RENGVHSLII EPVTSRDAGI YTCIATNRAG QNSFNLELVV AAKEAHKAPV FMEKLQNTGV ADGYPVRLEC RVSGVPPPQI FWKKENESLT HSTERVSMHQ DNHGYICLLI QGATKEDAGW YTVSAKNEAG IVSCTARLDV YTQWHQQPQT TKPKKVRPSA SRYAALSDQG LDIKAAFQPE ASPSHLTLNS GLVESEDL

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.
- 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 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 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®):

- 1. 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.
- 2. 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.

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)

# **Target Details**

_		
Inro	ı∩t:	
Taro	ıσι.	

### PALLD

Alternative Name:

Palld (PALLD Products)

# Background:

Palladin, FUNCTION: Cytoskeletal protein required for organization of normal actin cytoskeleton. Roles in establishing cell morphology, motility, cell adhesion and cell-extracellular matrix interactions in a variety of cell types. May function as a scaffolding molecule with the potential to influence both actin polymerization and the assembly of existing actin filaments into higherorder arrays. Binds to proteins that bind to either monomeric or filamentous actin. Localizes at sites where active actin remodeling takes place, such as lamellipodia and membrane ruffles. Different isoforms may have functional differences. Involved in the control of morphological and cytoskeletal changes associated with dendritic cell maturation. Involved in targeting ACTN to specific subcellular locations. May be required for the initiation of neural tube closure. {ECO:0000269|PubMed:10931874, ECO:0000269|PubMed:15950489,

ECO:0000269|PubMed:16492705, ECO:0000269|PubMed:17115415}.

# **Target Details**

Molecular Weight:	152.1 kDa
UniProt:	Q9ET54

# **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

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. 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)