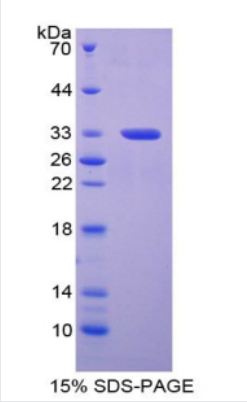
Periplakin (PPL) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Periplakin (PPL), Recombinant Protein
Full Product Name	Recombinant Periplakin (PPL)
Product Gene Name	PPL recombinant protein
Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. MGSSHHHHH H SSGLVPRGSH MASMTGGQQM GRGS- ESVQVEKGDT EQEIQRLKKS LEEESQSKRE LDSEVTRLEA KLSELEFYNS KSSKELDFLR EENHKLQLER QNLQLETRRL QSEIEMAATE TRDLKNITTI DSGTHLNSRL WSLEKELDDL KKMSKDKDLE IDELQRRLGS VAVKREQREN HLRRSIVVID PDTGRELSPE EAHRAGLIDW KMFVKLRSQE CDWEEISVKG PNGESSVIHD RKSGKKFSIE DALQSGRLTA AQYDRYVNKD MSIQELAVLV SGQK
Host	Host: E Coli Source: Prokaryotic expression
Form/Format	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Purity/Purification	>95%
Concentration	6 (lot specific)
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: PPL (MBS2025951) Immunogen: PPL (MBS2031499)
Matching Pairs	APC-CY7 Conjugated Antibody: PPL (MBS2079592) Immunogen: PPL (MBS2031499)
Matching Pairs	PE Conjugated Antibody: PPL (MBS2079593) Immunogen: PPL (MBS2031499)
Matching Pairs	APC Conjugated Antibody: PPL (MBS2079594) Immunogen: PPL (MBS2031499)
Matching Pairs	Cy3 Conjugated Antibody: PPL (MBS2079595) Immunogen: PPL (MBS2031499)
Matching Pairs	FITC Conjugated Antibody: PPL (MBS2079596) Immunogen: PPL (MBS2031499)
Matching Pairs	HRP Conjugated Antibody: PPL (MBS2079597) Immunogen: PPL (MBS2031499)
Matching Pairs	Biotin Conjugated Antibody: PPL (MBS2096395) Immunogen: PPL (MBS2031499)
Molecular Weight	204,747 Da
OMIM	602871
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.

Predicted Molecular Mass	33.1kDa
Accurate Molecular Mass (KD)	33kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Expression System	Prokaryotic expression
Tag	two N-terminal Tags, His-tag and T7-tag
Organism Species	Mus musculus (Mouse)
Fragment	Glu1501~Lys1754
Usage	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for PPL recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for PPL recombinant protein	MBS2031499 is a recombinant protein targeting PPL. Also known as Recombinant Periplakin (PPL). Host: E Coli Source: Prokaryotic expression.
Other Notes	Small volumes of PPL recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of PPL recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPL. It may not necessarily be applicable to this product.

NCBI GI #	45439327
NCBI GeneID	5493
NCBI Accession #	NP_002696.3
UniProt Secondary Accession #	O60314; O60454; Q14C98
UniProt Related Accession #	O60437
GenBank Nucleotide #	NM_002705.4
NCBI Official Full Name	periplakin
NCBI Official Synonym Full Names	periplakin
NCBI Official Symbol	PPL
UniProt Protein Name	Periplakin

UniProt Synonym Protein Names	190 kDa paraneoplastic pemphigus antigen; 195 kDa cornified envelope precursor protein
Protein Family	Periplakin
UniProt Gene Name	PPL
UniProt Synonym Gene Names	KIAA0568
UniProt Entry Name	PEPL_HUMAN
NCBI Protein Information	periplakin
NCBI Summary for PPL	The protein encoded by this gene is a component of desmosomes and of the epidermal cornified envelope in keratinocytes. The N-terminal domain of this protein interacts with the plasma membrane and its C-terminus interacts with intermediate filaments. Through its rod domain, this protein forms complexes with envoplakin. This protein may serve as a link between the cornified envelope and desmosomes as well as intermediate filaments. AKT1/PKB, a protein kinase mediating a variety of cell growth and survival signaling processes, is reported to interact with this protein, suggesting a possible role for this protein as a localization signal in AKT1-mediated signaling. [provided by RefSeq, Jul 2008]
UniProt Comments for PPL	periplakin: Component of the cornified envelope of keratinocytes. May link the cornified envelope to desmosomes and intermediate filaments. May act as a localization signal in PKB/AKT-mediated signaling. Belongs to the plakin or cytolinker family. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: desmosome; cytoskeleton; mitochondrion; plasma membrane; nucleus Molecular Function: protein binding; structural constituent of cytoskeleton Biological Process: keratinization
Research Articles on PPL	**1.** Low serum periplakin is associated with urothelial carcinoma.
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Online datasheet: https://www.mybiosource.com/ppl-recombinant-protein/periplakin/2031499