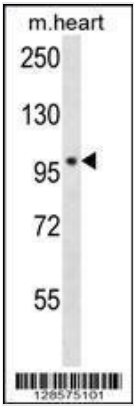
POLN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	POLN, Polyclonal Antibody
Full Product Name	POLN, CT (POLN, DNA polymerase nu)
Product Gene Name	anti-POLN antibody
Product Synonym Names	Anti -POLN, CT (POLN, DNA polymerase nu)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	100,307 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (2073645..2243848, complement). Location: 4p16.3
OMIM	610887
3D Structure	ModBase 3D Structure for Q7Z5Q5
Immunogen	POLN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 650-679 amino acids from the C-terminal region of human POLN.
Product Categories/Family for anti-POLN antibody	Antibodies; Abs to Enzymes; Polymerase
Applications Tested/Suitable for anti-POLN antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-POLN antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-POLN antibody	MBS6012688 is an antibody targeting POLN. Also known as POLN, CT (POLN, DNA polymerase nu). Reactive in Mouse. Host: Rabbit. The function of this protein remains unknown.
Other Notes	Small volumes of anti-POLN antibody 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.



Western Blot (WB) of anti-POLN antibody
POLN Antibody (C-term) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the POLN antibody detected the POLN protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	530376069
NCBI GeneID	353497
NCBI Accession #	XP_005248025.1
UniProt Primary Accession #	Q7Z5Q5
UniProt Secondary Accession #	Q4TTW4; Q6ZNF4; A2A336
UniProt Related Accession #	Q7Z5Q5
GenBank Nucleotide #	XM_005247968.1
NCBI Official Full Name	DNA polymerase nu isoform X2
NCBI Official Synonym Full Names	polymerase (DNA directed) nu
NCBI Official Symbol	POLN
NCBI Official Synonym Symbols	POL4P
UniProt Protein Name	DNA polymerase nu
Protein Family	DNA polymerase
UniProt Gene Name	POLN
UniProt Entry Name	DPOLN_HUMAN
NCBI Protein Information	DNA polymerase nu; DNA polymerase N; DNA polymerase POL4P
NCBI Summary for POLN	This gene encodes a DNA polymerase type-A family member. The encoded protein plays a role in DNA repair and homologous recombination. This gene shares its 5' exons with some transcripts from overlapping GeneID: 79441, which encodes an augmentin-like protein complex subunit. [provided by RefSeq, Dec 2014]

UniProt Comments for POLN	POLN: Belongs to the DNA polymerase type-A family. Protein type: Transferase; EC 2.7.7.7; DNA replication Chromosomal Location of Human Ortholog: 4p16.3 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; nucleolus; nucleus Molecular Function: protein binding; cyclin binding; DNA binding; DNA-directed DNA polymerase activity Biological Process: bypass DNA synthesis; DNA-dependent DNA replication; double-strand break repair via homologous recombination
Research Articles on POLN	**1.** WRN improves the efficiency and fidelity of hpol eta to promote more effective replication of DNA.
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