

**PALB2 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI15014**

**Specification**

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**PALB2 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">Q86YC2</a>
Other Accession	<a href="#">NM_024675</a> , <a href="#">BAB15140</a>
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

**PALB2 antibody - N-terminal region - Additional Information**

**Gene ID** 79728

**Alias Symbol** FANCN, PNCA3

**Other Names**

Partner and localizer of BRCA2, PALB2, FANCN

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-PALB2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

PALB2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**PALB2 antibody - N-terminal region - Protein Information**

**Name** PALB2

**Synonyms** FANCN

**Function**

Plays a critical role in homologous recombination repair (HRR) through its ability to recruit BRCA2 and RAD51 to DNA breaks (PubMed: [16793542](http://www.uniprot.org/citations/16793542) target="\_blank">16793542</a>, PubMed: [19369211](http://www.uniprot.org/citations/19369211) target="\_blank">19369211</a>, PubMed: [19423707](http://www.uniprot.org/citations/19423707) target="\_blank">19423707</a>, PubMed: [22941656](http://www.uniprot.org/citations/22941656) target="\_blank">22941656</a>, PubMed: [24141787](http://www.uniprot.org/citations/24141787) target="\_blank">24141787</a>, PubMed: [28319063](http://www.uniprot.org/citations/28319063) target="\_blank">28319063</a>)

target="\_blank">28319063</a>). Strongly stimulates the DNA strand-invasion activity of RAD51, stabilizes the nucleoprotein filament against a disruptive BRC3-BRC4 polypeptide and helps RAD51 to overcome the suppressive effect of replication protein A (RPA) (PubMed:<a href="http://www.uniprot.org/citations/20871615" target="\_blank">20871615</a>). Functionally cooperates with RAD51AP1 in promoting of D-loop formation by RAD51 (PubMed:<a href="http://www.uniprot.org/citations/20871616" target="\_blank">20871616</a>). Serves as the molecular scaffold in the formation of the BRCA1-PALB2-BRCA2 complex which is essential for homologous recombination (PubMed:<a href="http://www.uniprot.org/citations/19369211" target="\_blank">19369211</a>). Via its WD repeats is proposed to scaffold a HR complex containing RAD51C and BRCA2 which is thought to play a role in HR-mediated DNA repair (PubMed:<a href="http://www.uniprot.org/citations/24141787" target="\_blank">24141787</a>). Essential partner of BRCA2 that promotes the localization and stability of BRCA2 (PubMed:<a href="http://www.uniprot.org/citations/16793542" target="\_blank">16793542</a>). Also enables its recombinational repair and checkpoint functions of BRCA2 (PubMed:<a href="http://www.uniprot.org/citations/16793542" target="\_blank">16793542</a>). May act by promoting stable association of BRCA2 with nuclear structures, allowing BRCA2 to escape the effects of proteasome-mediated degradation (PubMed:<a href="http://www.uniprot.org/citations/16793542" target="\_blank">16793542</a>). Binds DNA with high affinity for D loop, which comprises single-stranded, double-stranded and branched DNA structures (PubMed:<a href="http://www.uniprot.org/citations/20871616" target="\_blank">20871616</a>). May play a role in the extension step after strand invasion at replication-dependent DNA double-strand breaks; together with BRCA2 is involved in both POLH localization at collapsed replication forks and DNA polymerization activity (PubMed:<a href="http://www.uniprot.org/citations/24485656" target="\_blank">24485656</a>).

#### Cellular Location

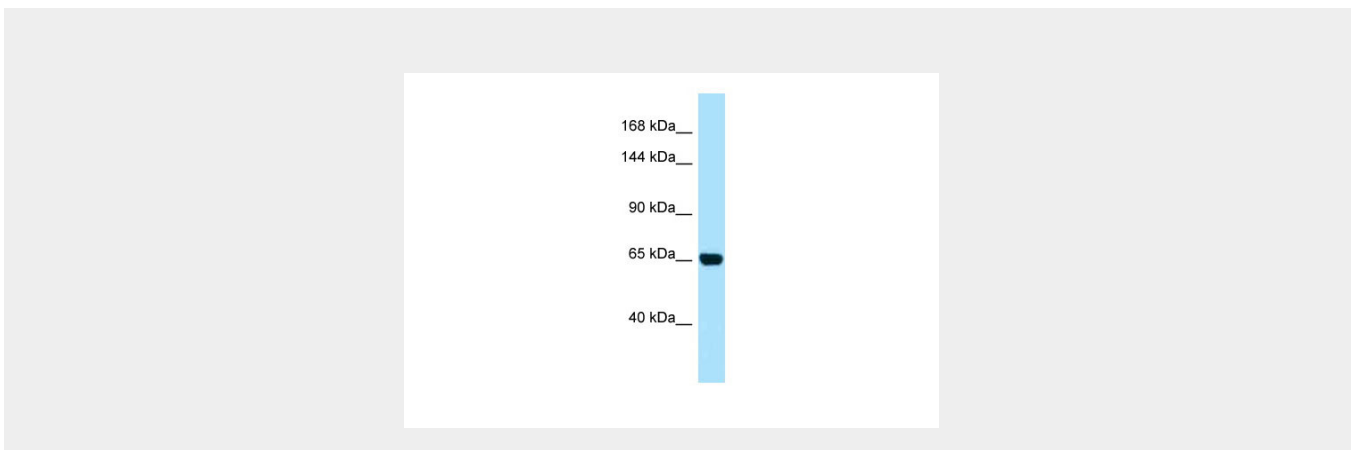
Nucleus Note=Colocalizes with BRCA2 and BRCA1 in nuclear foci

#### PALB2 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### PALB2 antibody - N-terminal region - Images



WB Suggested Anti-PALB2 Antibody Titration: 1.0 µg/ml

Positive Control: Hela Whole CellPALB2 is supported by BioGPS gene expression data to be expressed in HeLa

#### **PALB2 antibody - N-terminal region - References**

Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Martin J.,et al.Nature 432:988-994(2004).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Xia B.,et al.Mol. Cell 22:719-729(2006).