



Anti-PALB2 (aa 553-582) polyclonal antibody (DPABH-08721)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Plays a critical role in homologous recombination repair (HRR) through its ability to recruit BRCA2 and RAD51 to DNA breaks. Serves as the molecular scaffold in the formation of the BRCA1-PALB2-BRCA2 complex which is essential for homologous recombination. 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). Functionally cooperates with RAD51AP1 in promoting of D-loop formation by RAD51. Essential partner of BRCA2 that promotes the localization and stability of BRCA2. Also enables its recombinational repair and checkpoint functions of BRCA2. May act by promoting stable association of BRCA2 with nuclear structures, allowing BRCA2 to escape the effects of proteasome-mediated degradation. Binds DNA with high affinity for D loop, which comprises single-stranded, double-stranded and branched DNA structures.
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Immunogen	Synthetic peptide within Human PALB2 aa 553-582 (internal sequence) conjugated to Keyhole Limpet Haemocyanin (KLH). The exact sequence is proprietary. Database link: Q86YC2
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	Flow Cyt, WB
Format	Liquid
Size	100 µl

Buffer	Constituent: 99% PBS
Preservative	0.09% Sodium Azide
Storage	Shipped at 4°C. Store at 4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

GENE INFORMATION

Gene Name	PALB2 partner and localizer of BRCA2 [Homo sapiens]
Official Symbol	PALB2
Synonyms	PALB2; partner and localizer of BRCA2; FANCN; Fanconi anemia; complementation group N; FLJ21816; PNCA3; DKFZp667I166; DKFZp686E1054;
Entrez Gene ID	79728
Protein Refseq	NP_078951
UniProt ID	Q86YC2
Chromosome Location	16p12.1
Pathway	DNA Repair; Fanconi Anemia pathway; Fanconi anemia pathway;
Function	DNA binding; protein binding;