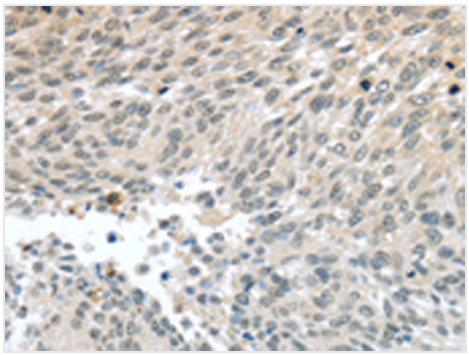
PALB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PALB2, Polyclonal Antibody
Full Product Name	PALB2 Antibody
Product Gene Name	anti-PALB2 antibody
Product Synonym Names	FANCN; PNCA3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen Affinity Purification
Concentration	1.8 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total PALB2 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	131,295 Da
OMIM	114480
3D Structure	ModBase 3D Structure for Q86YC2
Immunogen	Synthetic peptide of human PALB2
Immunogen Type	Peptide
Product Categories/Family for anti-PALB2 antibody	Total protein Ab
Applications Tested/Suitable for anti-PALB2 antibody	Immunohistochemistry (IHC)
Related Product Information for anti-PALB2 antibody	This gene encodes a protein that may function in tumor suppression. This protein binds to and colocalizes with the breast cancer 2 early onset protein (BRCA2) in nuclear foci and likely permits the stable intranuclear localization and accumulation of BRCA2.
Other Notes	Small volumes of anti-PALB2 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.
Searchable Terms for PALB2 purchase	MBS9415231 is an antibody targeting PALB2. Also known as PALB2 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-PALB2 antibody
Immunohistochemical analysis of paraffin-embedded Human lung cancer tissue using at dilution 1/30,

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PALB2. It may not necessarily be applicable to this product.

NCBI GI #	27436910
NCBI GeneID	79728
NCBI Accession #	NP_078951.2
UniProt Primary Accession #	Q86YC2
UniProt Secondary Accession #	Q8N7Y6; Q8ND31; Q9H6W1; A6NIE1
UniProt Related Accession #	Q86YC2
GenBank Nucleotide #	NM_024675.3
NCBI Official Full Name	partner and localizer of BRCA2
NCBI Official Synonym Full Names	partner and localizer of BRCA2
NCBI Official Symbol	PALB2
NCBI Official Synonym Symbols	FANCN; PNCA3
UniProt Protein Name	Partner and localizer of BRCA2
Protein Family	Partner and localizer of BRCA2
UniProt Gene Name	PALB2
UniProt Synonym Gene Names	FANCN
UniProt Entry Name	PALB2_HUMAN
NCBI Protein Information	partner and localizer of BRCA2

UniProt Comments for PALB2	PALB2: 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. Defects in PALB2 are a cause of susceptibility to breast cancer (BC). A common malignancy originating from breast epithelial tissue. Breast neoplasms can be distinguished by their histologic pattern. Invasive ductal carcinoma is by far the most common type. Breast cancer is etiologically and genetically heterogeneous. Important genetic factors have been indicated by familial occurrence and bilateral involvement. Mutations at more than one locus can be involved in different families or even in the same case. Breast cancer susceptibility is strongly associated with PALB2 truncating mutations. Conversely, rare missense mutations do not strongly influence breast cancer risk (PubMed:22241545). Defects in PALB2 are the cause of Fanconi anemia complementation group N (FANCN). It is a disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmentary changes, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage) and defective DNA repair. Defects in PALB2 are the cause of pancreatic cancer type 3 (PNCA3). It is a malignant neoplasm of the pancreas. Tumors can arise from both the exocrine and endocrine portions of the pancreas, but 95% of them develop from the exocrine portion, including the ductal epithelium, acinar cells, connective tissue, and lymphatic tissue. Protein type: Tumor suppressor Chromosomal Location of Human Ortholog: 16p12.2 Cellular Component: nucleoplasm Molecular Function: DNA binding; protein binding Biological Process: DNA synthesis during DNA repair; double-strand break repair via homologous recombination; strand displacement Disease: Breast Cancer; Fanconi Anemia, Complementation Group N; Pancreatic Cancer, Susceptibility To, 3; Tracheoesophageal Fistula With Or Without Esophageal Atresia
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