

For Research Use Only

# PFDN4 Polyclonal antibody

Catalog Number: 16045-1-AP

2 Publications



## Basic Information

### Catalog Number:

16045-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 473 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8938

### GenBank Accession Number:

BC010953

### GeneID (NCBI):

5203

### UNIPROT ID:

Q9NQP4

### Full Name:

prefoldin subunit 4

### Calculated MW:

134 aa, 15 kDa

### Observed MW:

15-20 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : MCF-7 cells, Raji cells, THP-1 cells

IHC : human breast cancer tissue,

## Background Information

The human PFDN4, prefoldin 4, is a subunit of the heterohexameric chaperone protein and belongs to the prefoldin family. The encoded protein is one of six subunits of prefoldin, a molecular chaperone complex that binds and stabilizes newly synthesized polypeptides, thereby allowing them to fold correctly. Previous reports have shown that PFDN4 is upregulated in breast cancer cell lines and tumor tissues (PMID: 11381030; PMID: 9630229). PFDN4 expression may be a prognostic factor in colorectal cancer (PMID: 20552408).

## Notable Publications

Author	Pubmed ID	Journal	Application
Fumihiko Urabe	32494663	Sci Adv	WB
Chengwei Chen	38835051	Biomark Res	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

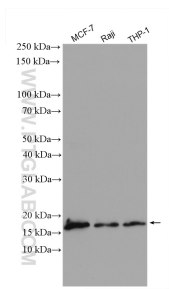
For technical support and original validation data for this product please contact:

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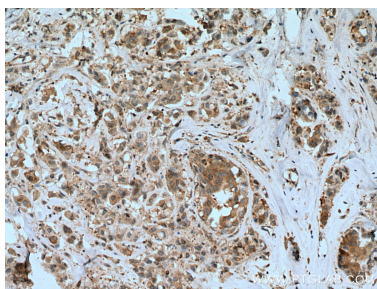
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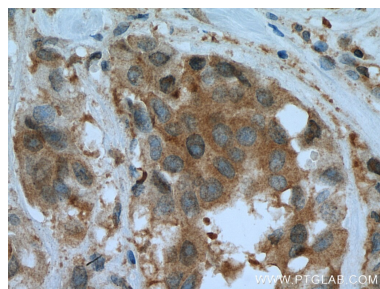
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16045-1-AP (PFDN4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16045-1-AP (PFDN4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16045-1-AP (PFDN4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).