

## APLF (Phospho Ser116) Rabbit pAb

CatalogNo: YP1078

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- IHC, IF, ELISA

#### MW

- 57kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC 1:100-1:300**

**ELISA 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human APLF around the phosphorylation site of Ser116. AA range:82-131

**Specificity** Phospho-APLF (S116) Polyclonal Antibody detects endogenous levels of APLF protein only when phosphorylated at S116. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RNsQV

## Target Information

**Gene name** APLF

**Protein Name** Aprataxin and PNK-like factor

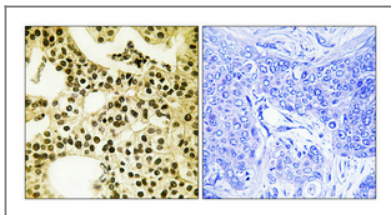
Organism	Gene ID	UniProt ID
Human	<a href="#">200558</a> ;	<a href="#">Q8IW19</a> ;
Mouse	<a href="#">72103</a> ;	<a href="#">Q9D842</a> ;

**Cellular Localization** Nucleus . Chromosome . Cytoplasm, cytosol . Localizes to DNA damage sites (PubMed:18474613, PubMed:18172500, PubMed:21211721, PubMed:23689425). Accumulates at single-strand breaks and double-strand breaks via the PBZ-type zinc fingers (PubMed:18172500). .

**Tissue specificity** Testis,

**Function** Domain:The FHA-like domain mediates interaction with XRCC1 and XRCC4.,Function:Involved in single-strand and double-strand DNA break repair.,PTM:Phosphorylated in an ATM-dependent manner upon double-strand DNA break.,similarity:Contains 1 FHA-like domain.,similarity:Contains 2 C2H2-type zinc fingers.,subcellular location:Colocalizes with XRCC1 at sites of DNA damage.,subunit:Interacts with XRCC1. May also interact with XRCC4 and XRCC5.,

## Validation Data



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

## Contact information

Orders: [order.cn@immunoway.com](mailto:order.cn@immunoway.com)  
Support: [support.cn@immunoway.com](mailto:support.cn@immunoway.com)  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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