

**Anti-Peripherin Antibody**

**Our Anti-Peripherin primary antibody from PhosphoSolutions is chicken polyclonal. It detects bovine**  
**Catalog # AN1517**

**Specification**

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**Anti-Peripherin Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC                |
| Primary Accession | <a href="#">P21807</a> |
| Reactivity        | Bovine, Chicken        |
| Host              | Chicken                |
| Clonality         | Polyclonal             |
| Isotype           | IgY                    |
| Calculated MW     | 53550                  |

**Anti-Peripherin Antibody - Additional Information****Other Names**

NEF 4 antibody, NEF4 antibody, Neurofilament 4 (57kD) antibody, Neurofilament 4 antibody, Perf antibody, PERI\_HUMAN antibody, Peripherin antibody, PRPH 1 antibody, prph antibody, PRPH1 antibody

**Target/Specificity**

Peripherin is a ~57 kDa intermediate filament subunit found initially in sensory neurons of the peripheral nervous systems, which gives the protein its name. Subsequently, peripherin was found in some sensory and other neurons of the central nervous system and also in PC12 cells. Peripherin is also expressed in certain neuroendocrine tumors and in the insulin producing cells of the pancreas. Peripherin belongs to the Class III family of intermediate filament subunits which also includes vimentin, glial fibrillary acidic protein (GFAP) and desmin. In contrast to the neurofilaments, peripherin is strongly up-regulated after nerve injury (1). Antibodies to peripherin can be used in identifying, classifying, and studying neurons throughout the nervous system. Peripherin is also a good diagnostic marker for ballooned axons seen in Lou Gehrig's disease (Amyotrophic lateral sclerosis) and some neuronally derived tumors (2). Autoantibodies to peripherin are frequently seen in the sera of patients with diabetes (3). Peripherin is not related to peripherin/RDS, a protein of the photoreceptor outer membrane mutations of which are causative of certain forms of slow retinal degeneration.

**Dilution**

WB~~1:1000  
IHC~~1:100~500

**Format**

Total IgY fraction

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-Peripherin Antibody is for research use only and not for use in diagnostic or therapeutic

procedures.

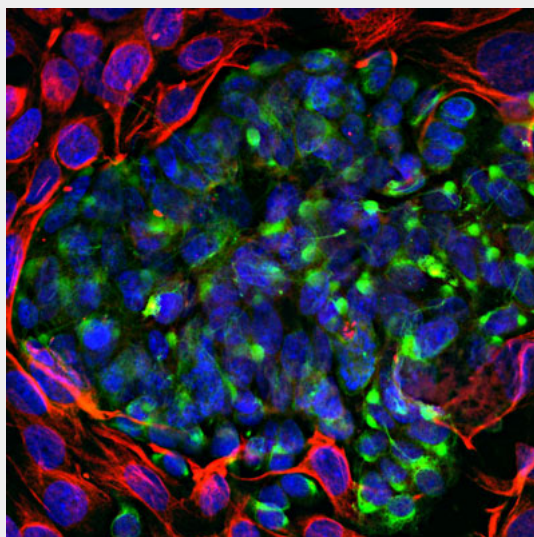
**Shipping**  
Blue Ice

### Anti-Peripherin Antibody - Protocols

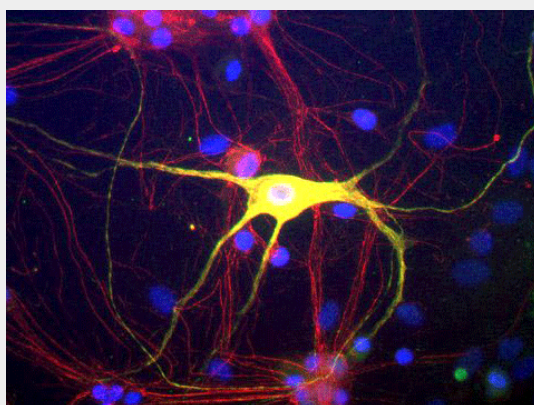
Provided below are standard protocols that you may find useful for product applications.

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

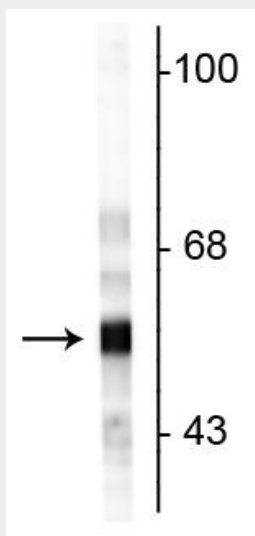
### Anti-Peripherin Antibody - Images



Immunofluorescence of mixed fibroblasts and PC12 cells labeled with anti-peripherin (cat. 1631-PER, green, 1:5000) and anti-vimentin (red). The blue is DAPI staining nuclear DNA. Peripherin is labeled in only the PC12 cells cytoplasmic filaments and vimentin is only labeled in the fibroblasts intermediate filaments where peripherin is not present.



Immunofluorescence of cultured rat neurons and glia showing peripherin (cat. 1631-PER, green, 1:500) and alpha-internexin (red). The blue stain is nuclear DNA. Cells expressing both peripherin and alpha-internexin appear yellow.



Western blot of rat cerebellar lysate showing specific immunolabeling of the ~57 kDa peripherin protein.

#### **Anti-Peripherin Antibody - Background**

Peripherin is a ~57 kDa intermediate filament subunit found initially in sensory neurons of the peripheral nervous systems, which gives the protein its name. Subsequently, peripherin was found in some sensory and other neurons of the central nervous system and also in PC12 cells. Peripherin is also expressed in certain neuroendocrine tumors and in the insulin producing cells of the pancreas. Peripherin belongs to the Class III family of intermediate filament subunits which also includes vimentin, glial fibrillary acidic protein (GFAP) and desmin. In contrast to the neurofilaments, peripherin is strongly up-regulated after nerve injury (1). Antibodies to peripherin can be used in identifying, classifying, and studying neurons throughout the nervous system. Peripherin is also a good diagnostic marker for ballooned axons seen in Lou Gehrig's disease (Amyotrophic lateral sclerosis) and some neuronally derived tumors (2). Autoantibodies to peripherin are frequently seen in the sera of patients with diabetes (3). Peripherin is not related to peripherin/RDS, a protein of the photoreceptor outer membrane mutations of which are causative of certain forms of slow retinal degeneration.