### Rabbit polyclonal antibody to Peripherin

**Catalog Number:** NB300-137

**Background:** Peripherin is a Class III intermediate filament subunit found in both the peripheral and central nervous systems, though it is concentrated, as its name suggests, in the neurons of peripheral ganglia and their processes. Antibodies to peripherin can be used in identifying, classifying, and studying neurons in the nervous system. Peripherin is also a good diagnostic marker for ballooned axons seen in Lou Gehrig's disease and some neuronally derived tumors. Peripherin is also a major component of the cytoskeleton of PC12 cells, widely used model system for studies of neuronal differentiation. Autoantibodies to peripherin are frequently seen in the sera of patients with diabetes. Peripherin is not related to peripherin-RDS, a photoreceptor protein associated with retinal degeneration and blindness.

**Alternate Names:** anti-NEF4 antibody, anti-neurofilament 4 antibody, anti-Peripherin Variant 61 antibody

**Host:** Rabbit

**Research Areas:** Neuroscience, Cancer Research, Neuronal Markers, Peripherin, IHC Grade

**Immunogen:** Recombinant full length rat peripherin

**Isotype:** n/a

**Specificity:** Specifically recognizes peripherin, showing no cross reactivity with other Class III intermediate filament proteins.

**Localization:** Neuronal Marker

**Species Reactivity:** Human and all other mammalian species to date. Results on avian tissues are however not conclusive.

**Uses:** Can be used on formalin-fixed paraffin-embedded histological sections, immunocytochemistry, ELISA, and Western blotting. A band at ~57 kDa can be seen in Western blotting. Western Blot 1:5,000

**Immunofluorescence 1:1,000**

* Other applications have not been tested.

**Dilutions:** Suggested working dilutions:

- Immunohistochemistry-F, Immunohistochemistry-P, ICC, Western Blot, ELISA, Immunofluorescence
- * Investigator should determine optimal working dilutions.

**Packaging:** 0.05 ml of crude rabbit antisera. Contains no preservative.

**Storage:** Store at 4 degrees C. Long term (> 6 months): aliquot and store at -20 degrees C. Avoid repeated freeze/thawing.

**Limitations:** This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.


Image(s)

Detection of the 57 kDa peripherin protein in whole rat brain stem homogenate using NB 300-137 (1:20,000). The faint 48 kDa band is a peripherin molecule.