

# Anti-Neurofilament light polypeptide (NF-L), DG-Sensor™ Antibody



## Product Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Variants | 100 µg (SKU:C-2125-100)                                                                                                                                                                                                                                                                                                                                                                                                              |
| Conjugate          | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype            | IgY                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Host Species       | Chicken                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Format             | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Physical State     | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Buffer             | Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide                                                                                                                                                                                                                                                                                                                                                         |
| Production Notes   | Affinity-purified                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applications       | IF, IHC, WB                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dilution Ranges    | WB: 1:1000-1:5000<br>IHC: 1:1000-1:10000<br>ICC: 1:1000-1:10000                                                                                                                                                                                                                                                                                                                                                                      |
| Species Reactivity | Bovine, Human, Mouse, Pig, Rat                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen          | The antibody has been made against a proprietary recombinant construct containing amino acids of human NF-L expressed in and purified from E Coli.                                                                                                                                                                                                                                                                                   |
| Specificity        | Species cross-reactivity includes human, rat, mouse, cow, and pig. These are antibodies which recognize epitopes in a small segment of the neurofilament NF-L subunit which are normally not accessible to antibodies but which became available on degeneration in natural or native conditions. Under reduced or proteinase treated tissues or Western blot, these antibodies are all specific for NF-L from a variety of species. |
| Storage            | Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°C After reconstitution of                                                                                                                                                                                            |

lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles. Store at 4°C for up to one month for short term storage and frequent use.

|                   |                                                  |
|-------------------|--------------------------------------------------|
| UniProt ID        | <a href="#">P07196</a>                           |
| Country of Origin | United States                                    |
| Shipping          | 25°C (ambient)                                   |
| Expiration        | 12 months after date of receipt (unopened vial). |
| Usage Statement   | For research use only.                           |

## Product Images

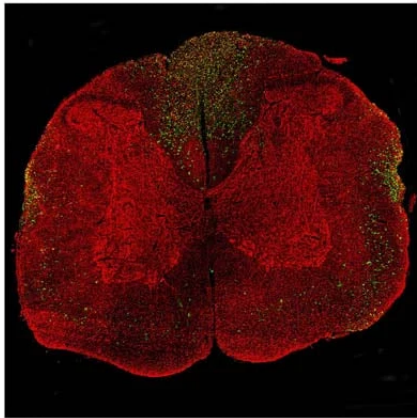
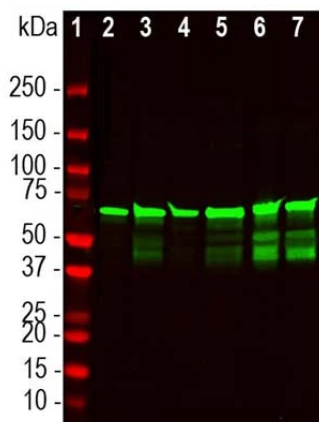


Image of a rat spinal cord section with a three-day-old midline C4 contusion injury by **Immunofluorescence and Immunohistochemistry**. The section was stained with C-2125-100, Neurofilament light polypeptide (NF-L), DG-Sensor™, Chicken pAb, (green), and co-stained with product R-2113-50, Neurofilament light polypeptide, C-terminus, (NF-L-Ct), Rabbit pAb, (red). Product C-2125-100 stains prominent aggregates of material concentrated in the lateral funiculi and dorsal columns, which are degenerating and degenerated axons caused by the C4 lesion. As product R-2113-50 antibody binds the C-terminal "tail" region of NF-L, which is absent or destroyed during degeneration, the DG-Sensor™ C-2125 stains positively for degenerating NF-L profiles, but staining with R-2113-50 full-length NF-L is largely negative.



Analysis by **western blot** of NF-L expression in different tissue lysates with C-2125-100, Neurofilament light polypeptide (NF-L), DG-Sensor™, Chicken pAb, (green, 1:10,000) with strong bands at approx 68kDa. Lane 1: protein standard (red); Lane 2: rat brain; Lane 3: rat spinal cord; Lane 4: mouse brain; Lane 5: mouse spinal cord; Lane 6: bovine spinal cord; Lane 7: pig spinal cord. DG-Sensor™ antibodies detect NF-L in denatured protein lysates regardless of degeneration state. The lower molecular weight bands detected in the spinal cord samples are proteolytic artefacts



Created on 13. September 2026 | All information without guarantee