www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

# Anti-Semaphorin-3A (Central region) Antibody

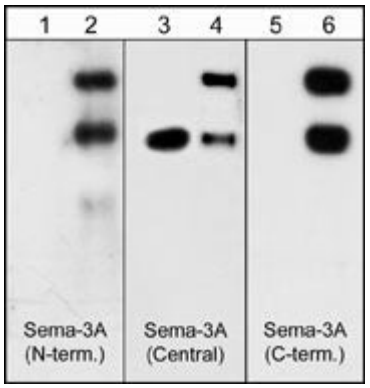
phosphosolutions ANTIBODIES THAT WORK

## Product Details

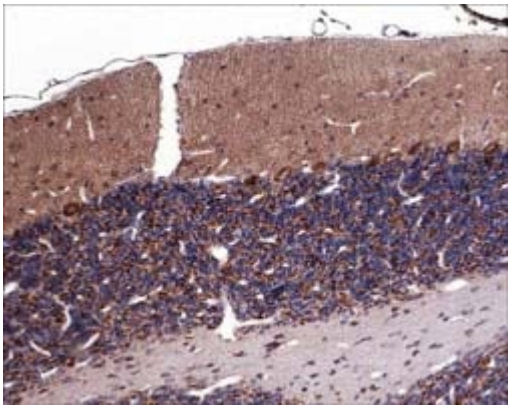
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|---|---|
| **Available Variants** | 100 µL (SKU:SP1221) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgG |
| **Gene Name** | SEMA3A |
| **Host Species** | Rabbit |
| **Format** | Antigen Affinity Purified |
| **Physical State** | Liquid |
| **Buffer** | PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol |
| **Applications** | ELISA, ICC, IHC, WB |
| **Dilution Ranges** | WB: 1:1000<br>IHC: 6:00<br>ICC: 1:100 |
| **Species Reactivity** | Human, Mouse, Rat |
| **Immunogen** | Semaphorin 3A synthetic peptide (coupled to carrier protein) corresponding to amino acids in the central region of human Sema3A. The sequence used is highly conserved in rat and mouse Sema3A, and has low homology to other semaphorin family members. |
| **Specificity** | The antibody detects a 95kDa* protein corresponding to the apparent molecular mass of Sema3A on SDS-PAGE immunoblots of human recombinant Sema3A and neonatal rat brain lysates. |
| **Molecular Weight** | 95 |
| **Quality Control** | Western blots performed on each lot. |

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| **Storage** | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. |
| **UniProt ID** | Q14563<br>UniProt Summary: Involved in the development of the olfactory system and in neuronal control of puberty. Induces the collapse and paralysis of neuronal growth cones. Could serve as a ligand that guides specific growth cones by a motility-inhibiting mechanism. Binds to the complex neuropilin-1/plexin-1. |
| **Country of Origin** | United States |
| **Shipping** | Blue Ice |
| **Expiration** | After date of receipt, stable for at least 1 year at -20°C. |
| **Usage Statement** | For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website. |
| **NCBI Gene ID** | 10371 |

## Product Images




Western blots of neonatal rat brain (lanes 1, 3 & 5) and human recombinant Sema3A/Fc chimera (95/125 kDa) (lanes 2, 4 & 6). Blots were probed with anti-Sema3A (SP1401) (lanes 1 & 2), anti-Sema3A (SP1221) (lanes 3 & 4) and anti-Sema3A (SP1241) (lane 5 & 6). The antibodies recognize both the 95 kDa and 125 kDa forms of the recombinant Sema3A.



Formalin fixed, citric acid treated parafin sections of adult Rat cerebellum. Sections were probed with anti-Sema3A (SP1221) then anti-Rabbit:HRP before detection using DAB. (Images provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).

Created on 21. November 2026 | All information without guarantee