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# Semaphorin 5B Rabbit pAb

Catalog # AP96374

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q9P283 |
| **Other Accession** | Q9P283 |
| **Reactivity** | Mouse |
| **Predicted** | Rat, Human, Chicken, Dog, Horse, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 125913 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human SEMA5B/Semaphorin 5B |
| **Epitope Specificity** | 146-195/1151 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the semaphorin family. Contains 1 PSI domain. Contains 1 Sema domain. Contains 5 TSP type-1 domains. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | Semaphorins are a family of cell surface and secreted proteins that are conserved from insects to humans. Members of this family of proteins are approximately 750 amino acids in length (including signal sequences) and are defined by a conserved extracellular “semaphorin” domain of approximately 500 amino acids containing 14-16 cysteines, blocks of conserved sequences and no obvious repeats. Secreted and cell-bound semaphorins chemically attract and repel the growth of neural axons, guiding the development of intricate networks of neural tissue. SEMA5B (semaphorin-5B), also known as SEMAG, is a 1151 amino acid member of the semaphorin family. Localized to the membrane, SEMA5B is a single-pass type III protein that functions to convey positive axonal guidance cues and can induce calpain-mediated cleavage of calcineurin. Three isoforms exist due to alternative splicing events. |

## Additional Information

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| **Gene ID** | 54437 |
| **Other Names** | SEMAG; SemG; SEM5B_HUMAN; SEMA5B; KIAA1445; semaphorin 5B; sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B |
| **Dilution** | WB=1:500-2000 |

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| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | SEMA5B |
| **Synonyms** | KIAA1445, SEMAG |
| **Function** | May act as a positive axonal guidance cue. |
| **Cellular Location** | Membrane; Single-pass type III membrane protein |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.