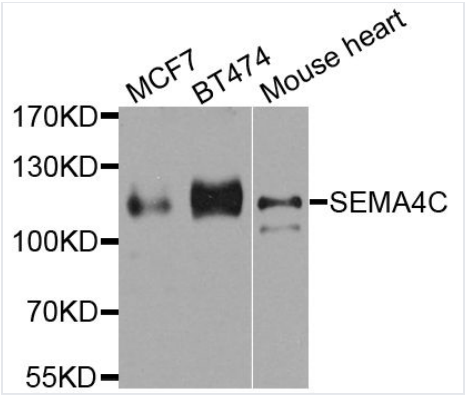
# SEMA4C Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SEMA4C, Polyclonal Antibody |
| **Full Product Name** | SEMA4C Polyclonal Antibody |
| **Product Gene Name** | anti-SEMA4C antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Form/Format** | PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3 |
| **Purity/Purification** | Affinity Purification |
| **Preparation and Storage** | Store at -20°C. Avoid freeze/thaw cycles |
| **Molecular Weight** | Observed MW: 110 kDa<br>Calculated MW: 93 kDa |
| **OMIM** | 604462 |
| **3D Structure** | ModBase 3D Structure for Q9C0C4 |
| **Species/Cross-Reactivity** | Human, Mouse |
| **Immunogen** | Recombinant protein (or fragment) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-SEMA4C antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-SEMA4C antibody** | WB 1:500 - 1:2000<br>ELISA: Recommended starting concentration is 1 ug/ml. Please optimize the concentration based on your specific assay requirements |
| **Related Product Information for anti-SEMA4C antibody** | Predicted to enable chemorepellent activity and semaphorin receptor binding activity. Involved in muscle cell differentiation and positive regulation of stress-activated MAPK cascade. Located in extracellular space. |
| **Other Notes** | Small volumes of anti-SEMA4C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for SEMA4C purchase** | MBS9128319 is an antibody targeting SEMA4C. Also known as SEMA4C Polyclonal Antibody. Host: Rabbit. |




**Western Blot (WB) of anti-SEMA4C antibody**
Western blot analysis of extracts of various cell lines, using SEMA4C antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEMA4C. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 157388902 |
| **NCBI GeneID** | 54910 |
| **NCBI Accession #** | NP_060259.4 |
| **UniProt Primary Accession #** | Q9C0C4 |
| **UniProt Secondary Accession #** | Q32MJ3; Q7Z5X0 |
| **UniProt Related Accession #** | Q9C0C4 |
| **GenBank Nucleotide #** | NM_017789.4 |
| **NCBI Official Full Name** | semaphorin-4C |
| **NCBI Official Synonym Full Names** | sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C |
| **NCBI Official Symbol** | SEMA4C |
| **NCBI Official Synonym Symbols** | SEMAF; SEMAI; SEMACL1; M-SEMA-F |
| **UniProt Protein Name** | Semaphorin-4C |
| **Protein Family** | Semaphorin |
| **UniProt Gene Name** | SEMA4C |
| **UniProt Synonym Gene Names** | KIAA1739; SEMAI |
| **UniProt Entry Name** | SEM4C_HUMAN |
| **NCBI Protein Information** | semaphorin-4C |

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| **UniProt Comments for SEMA4C** | SEMA4C: Cell surface receptor for PLXNB2 that plays an important role in cell-cell signaling. PLXNB2 binding promotes downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr-1248'. Required for normal brain development, axon guidance and cell migration. Probable signaling receptor which may play a role in myogenic differentiation through activation of the stress-activated MAPK cascade. Belongs to the semaphorin family.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 2q11.2<br><br>Cellular Component: postsynaptic membrane; extracellular space; synaptic vesicle membrane; postsynaptic density; integral to membrane; cell junction<br><br>Molecular Function: receptor activity<br><br>Biological Process: cell migration in hindbrain; muscle cell differentiation; neural tube closure; cerebellum development; positive regulation of stress-activated MAPK cascade |
| **Research Articles on SEMA4C** | **1.** Data suggest that Erbin can interact with Sema4C, and co-expression of Erbin blocks the process of Sema4C-induced epithelial-mesenchymal transition. |
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