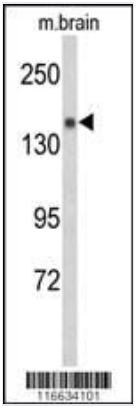
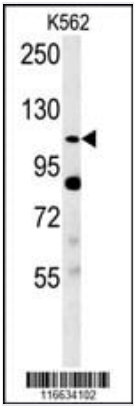
# Semaphorin 5a (SEMA5A) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Semaphorin 5A (SEMA5A), Polyclonal Antibody |
| **Full Product Name** | Semaphorin 5A (S106) (Semaphorin-F, Sema F, Semaphorin-5A, SEMAF, SEMA5A) (APC) |
| **Product Gene Name** | anti-SEMA5A antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Ammonium Sulfate Precipitation. |
| **Specificity** | Recognizes human Semaphorin 5A. Species Crossreactivity: mouse. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 120,615 Da |
| **3D Structure** | ModBase 3D Structure for Q13591 |
| **Immunogen** | Synthetic peptide selected from the S106 region of human Semaphorin 5A (KLH). |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-SEMA5A antibody** | Antibodies; Plexin; Semaphorin |
| **Applications Tested/Suitable for anti-SEMA5A antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-SEMA5A antibody** | WB: 1:100-1:500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-SEMA5A antibody** | MBS6498737 is an antibody targeting SEMA5A. Also known as Semaphorin 5A (S106) (Semaphorin-F, Sema F, Semaphorin-5A, SEMAF, SEMA5A) (APC). Reactive in Human, Mouse. Host: Rabbit. |
| **Product References and Citations for anti-SEMA5A antibody** | 1. Weiss, L.A., et.al., Nature 461(7265), 802-808 (2009). |
| **Other Notes** | Small volumes of anti-SEMA5A 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. |




**Western Blot (WB) of anti-SEMA5A antibody**
Western blot analysis of Semaphorin 5A-S106 Antibody in mouse brain tissue lysates (35ug/lane). Semaphorin 5A (arrow) was detected using the purified Pab.




**Western Blot (WB) of anti-SEMA5A antibody**
Semaphorin 5A-S106 Antibody western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the Semaphorin 5A antibody detected the Semaphorin 5A protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEMA5A. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 147904700 |
| **NCBI GeneID** | 9037 |
| **NCBI Accession #** | NP_003957 |
| **UniProt Primary Accession #** | Q13591 |
| **UniProt Secondary Accession #** | O60408; Q1RLL9; D3DTC6 |
| **UniProt Related Accession #** | Q13591 |
| **GenBank Nucleotide #** | NM_003966 |
| **NCBI Official Full Name** | semaphorin-5A |
| **NCBI Official Synonym Full Names** | sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A |
| **NCBI Official Symbol** | SEMA5A |
| **NCBI Official Synonym Symbols** | semF; SEMAF |
| **UniProt Protein Name** | Semaphorin-5A |
| **UniProt Synonym Protein Names** | Semaphorin-F; Sema F |
| **Protein Family** | Semaphorin |
| **UniProt Gene Name** | SEMA5A |
| **UniProt Synonym Gene Names** | SEMAF; Sema F |
| **NCBI Protein Information** | semaphorin-5A; sema F; semaphorin 5A; semaphorin F; semaphorin-F |
| **UniProt Comments for SEMA5A** | Bifunctional axonal guidance cue regulated by sulfated proteoglycans; attractive effects result from interactions with heparan sulfate proteoglycans (HSPGs), while the inhibitory effects depend on interactions with chondroitin sulfate proteoglycans (CSPGs) (). Ligand for receptor PLXNB3. In glioma cells, SEMA5A stimulation of PLXNB3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDIA-mediated inactivation of RAC1. May promote angiogenesis by increasing endothelial cell proliferation and migration and inhibiting apoptosis. |

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