# Plexin A1 (PLXNA1) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Plexin A1 (PLXNA1), Polyclonal Antibody |
| **Full Product Name** | Biotin-Linked Polyclonal Antibody to Plexin A1 (PLXNA1) |
| **Product Gene Name** | anti-PLXNA1 antibody |
| **Product Synonym Names** | NOV; NOVP; PLXN1; Semaphorin receptor NOV |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Concentration** | 500ug/ml (lot specific) |
| **Matching Pairs** | Unconjugated Antibody: PLXNA1 (MBS2028433)<br>Biotin Conjugated Antibody: PLXNA1 (MBS2096404) |
| **Matching Pairs** | Biotin Conjugated Antibody: PLXNA1 (MBS2096404)<br>Immunogen: PLXNA1 (MBS2029362) |
| **Molecular Weight** | 211,067 Da |
| **OMIM** | AC011199 Genomic DNA |
| **3D Structure** | ModBase 3D Structure for Q9UIW2 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire. |
| **Conjugation** | Biotin |
| **Cross Reactivity** | Human |
| **Immunogen** | PLXNA1 (Thr43~Ile300) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory. |
| **Applications Tested/Suitable for anti-PLXNA1 antibody** | Western Blot (WB), Immunohistochemistry (IHC) |
| **Related Product Information for anti-PLXNA1 antibody** | MBS2096404 is an antibody targeting PLXNA1. Also known as Biotin-Linked Polyclonal Antibody to Plexin A1 (PLXNA1). Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-PLXNA1 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLXNA1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 262118282 |
| **NCBI GeneID** | 5361 |
| **NCBI Accession #** | NP_115618.3 |
| **UniProt Primary Accession #** | Q9UIW2 |

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| **UniProt Related Accession #** | Q9UIW2 |
| **GenBank Nucleotide #** | NM_032242.3 |
| **NCBI Official Full Name** | plexin-A1 |
| **NCBI Official Synonym Full Names** | plexin A1 |
| **NCBI Official Symbol** | PLXNA1 |
| **NCBI Official Synonym Symbols** | NOV; NOVP; PLXN1; PLEXIN-A1 |
| **UniProt Protein Name** | Plexin-A1 |
| **UniProt Synonym Protein Names** | Semaphorin receptor NOV |
| **Protein Family** | Plexin |
| **UniProt Gene Name** | PLXNA1 |
| **UniProt Synonym Gene Names** | NOV; PLXN1 |
| **NCBI Protein Information** | plexin-A1 |
| **UniProt Comments for PLXNA1** | PLXNA1: Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down- stream signaling events in the cytoplasm. Interacts directly with NRP1 and NRP2. Interacts with FARP2, RND1 and KDR/VEGFR2. Binding of SEMA3A leads to dissociation of FARP2. Detected in fetal brain, lung, liver and kidney. Belongs to the plexin family.<br><br>Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Receptor, misc.<br><br>Chromosomal Location of Human Ortholog: 3q21.3<br><br>Cellular Component: extracellular exosome; integral component of membrane; plasma membrane<br><br>Molecular Function: receptor activity; semaphorin receptor activity<br><br>Biological Process: branchiomotor neuron axon guidance; multicellular organism development; regulation of axon extension involved in axon guidance; regulation of smooth muscle cell migration; semaphorin-plexin signaling pathway |
| **Research Articles on PLXNA1** | **1.** We thus screened 250 patients for the presence of mutations in PLXNA1, and identified different nonsynonymous mutations (p.V349L, p.V437L, p.R528W, p.H684Y, p.G720E, p.R740H, p.R813H, p.R840Q, p.A854T, p.R897H, p.L1464V, p.K1618T, p.C1744F), all at heterozygous state, in 15 patients. |
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| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

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