

## ARG82394 Human Plexin B3 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG82394-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82394-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG82394-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG82394-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG82394-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG82394-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG82394-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG82394-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG82394-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG82394-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG82394-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG82394 Human Plexin B3 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Plexin B3 in serum, plasma (EDTA, heparin) and cell culture supernatants. |
| Tested Reactivity   | Hu  |
| Tested Application  | ELISA   |
| Target Name         | Plexin B3   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm.  |
| Sensitivity         | 46.8 pg/ml  |
| Sample Type         | Serum, plasma (EDTA, heparin) and cell culture supernatants.  |
| Standard Range      | 93.7 - 6000 pg/ml   |
| Sample Volume       | 100 µl  |
| Precision           | Intra-Assay CV: 6.0%<br>Inter-Assay CV: 6.5%  |

Alternate Names PLEXB3; PLXN6; PLEXR; Plexin-B3

## Application Instructions

Assay Time ~ 5 hours

## Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol PLXNB3

Gene Full Name plexin B3

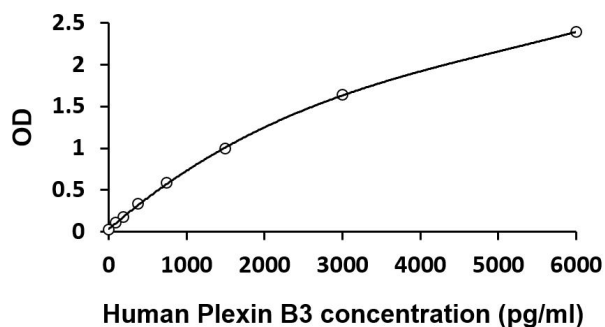
Background The protein encoded by this gene is a member of the plexin family. It functions as a receptor for semaphorin 5A, and plays a role in axon guidance, invasive growth and cell migration. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Function Receptor for SEMA5A that plays a role in axon guidance, invasive growth and cell migration. Stimulates neurite outgrowth and mediates Ca<sup>2+</sup>/Mg<sup>2+</sup>-dependent cell aggregation. 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 ARHGDI A-mediated inactivation of RAC1. [UniProt]

Highlight Related products:  
[Plexin antibodies](#); [Plexin ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Cell membrane; Single-pass type I membrane protein. Note=Colocalizes with RIT2/RIN at the plasma membrane. [UniProt]

## Images



ARG82394 Human Plexin B3 ELISA Kit standard curve image

ARG82394 Human Plexin B3 ELISA Kit results of a typical standard run with optical density reading at 450 nm.