

## ARG82408 Mouse Plexin B2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG82408-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82408-002 | Standard                              | 2 X 50 ng/vial       | 4°C   |
| ARG82408-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG82408-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG82408-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG82408-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG82408-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG82408-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG82408-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG82408-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG82408-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG82408 Mouse Plexin B2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Plexin B2 in serum, plasma (EDTA, heparin) and cell culture supernatants. |
| Tested Reactivity   | Ms  |
| Tested Application  | ELISA   |
| Target Name         | Plexin B2   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm.  |
| Sensitivity         | 0.39 ng/ml  |
| Sample Type         | Serum, plasma (EDTA, heparin) and cell culture supernatants.  |
| Standard Range      | 0.78 - 50 ng/ml   |
| Sample Volume       | 100 µl  |
| Precision           | Intra-Assay CV: 5.8%<br>Inter-Assay CV: 6.3%  |

Alternate Names Plexin-B2; Nbla00445; MM1; PLEXB2; dJ402G11.3

## Application Instructions

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Assay Time ~ 5 hours

## Properties

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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

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Gene Symbol PLXNB2

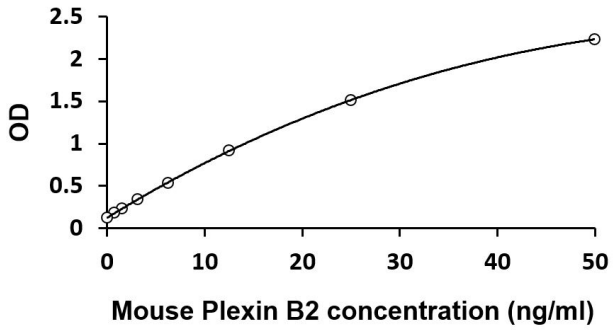
Gene Full Name plexin B2

Background Members of the B class of plexins, such as PLXNB2 are transmembrane receptors that participate in axon guidance and cell migration in response to semaphorins (Perrot et al. (2002) [PubMed 12183458]).[supplied by OMIM, Mar 2008]

Function Cell surface receptor for SEMA4C, SEMA4D and SEMA4G that plays an important role in cell-cell signaling. Binding to class 4 semaphorins promotes downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr-1248'. Required for normal differentiation and migration of neuronal cells during brain corticogenesis and for normal embryonic brain development. Regulates the migration of cerebellar granule cells in the developing brain. Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. May modulate the activity of RAC1 and CDC42. Down-regulates macrophage migration in wound-healing assays (in vitro) (By similarity). [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. [UniProt]



ARG82408 Mouse Plexin B2 ELISA Kit standard curve image

ARG82408 Mouse Plexin B2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.

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