

ARG82409 Rat Plexin B2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82409-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82409-002	Standard	2 X 50 ng/vial	4°C
ARG82409-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82409-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82409-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82409-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82409-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82409-008	25X Wash buffer	20 ml	4°C
ARG82409-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82409-010	STOP solution	10 ml (Ready to use)	4°C
ARG82409-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82409 Rat Plexin B2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Plexin B2 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Rat
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: 5.3% Inter-Assay CV: 6.6%

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

Application Instructions

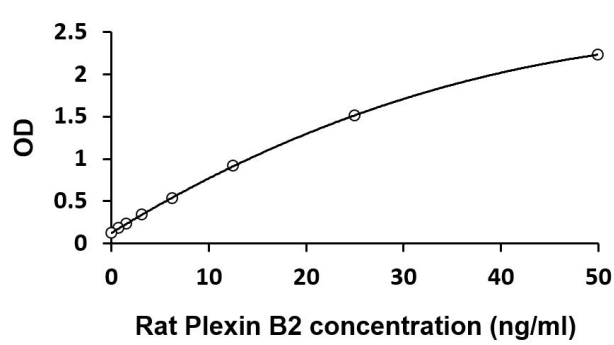
Assay Time ~ 5 hours

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	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]



ARG82409 Rat Plexin B2 ELISA Kit standard curve image

ARG82409 Rat Plexin B2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.