

## ARG82540 Rat Semaphorin 4G ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82540-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82540-002	Standard	2 X 10 ng/vial	4°C
ARG82540-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82540-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82540-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82540-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82540-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82540-008	25X Wash buffer	20 ml	4°C
ARG82540-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82540-010	STOP solution	10 ml (Ready to use)	4°C
ARG82540-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82540 Rat Semaphorin 4G ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Semaphorin 4G in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	Semaphorin 4G
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.7% Inter-Assay CV: 6.5%

## Application Instructions

Assay Time ~ 5 hours

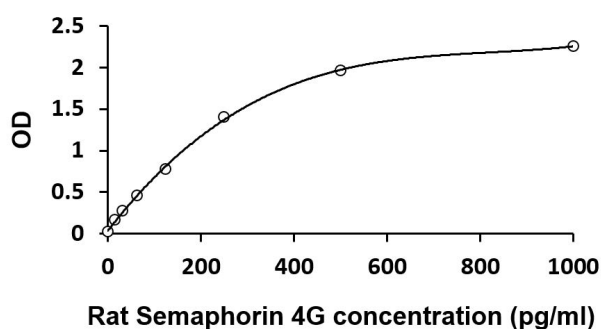
## Properties

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	SEMA4G
Gene Full Name	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G
Background	Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]
Function	Cell surface receptor for PLXNB2. May play a role in axon guidance (By similarity). [UniProt]
Highlight	Related products: <a href="#">Semaphorin antibodies: Semaphorin ELISA Kits:</a> New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
Cellular Localization	Cell membrane; Single-pass type I membrane protein. [UniProt]

## Images



ARG82540 Rat Semaphorin 4G ELISA Kit standard curve image

ARG82540 Rat Semaphorin 4G ELISA Kit results of a typical standard run with optical density reading at 450 nm.