

ARG82545 Human Semaphorin 6D ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG82545-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82545-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG82545-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG82545-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG82545-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG82545-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG82545-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG82545-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG82545-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG82545-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG82545-011 | Plate sealer | 4 strips | Room temperature |

Summary

| | |
|---------------------|--|
| Product Description | ARG82545 Human Semaphorin 6D ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Semaphorin 6D in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Target Name | Semaphorin 6D |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 20 pg/ml |
| Sample Type | Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants. |
| Standard Range | 31.2 - 2000 pg/ml |
| Sample Volume | 100 µl |
| Precision | Intra-Assay CV: 4.8% Inter-Assay CV: 6.7% |

Alternate Names Semaphorin-6D

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 SEMA6D

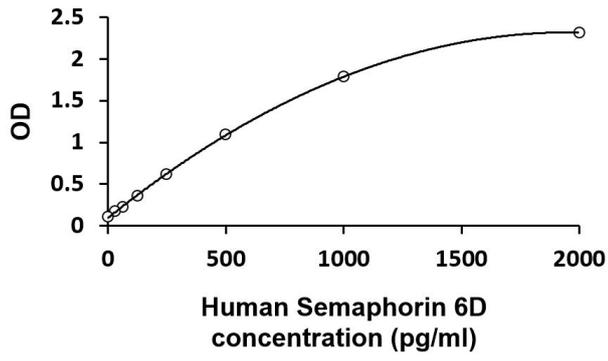
Gene Full Name sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D

Background Semaphorins are a large family, including both secreted and membrane associated proteins, many of which have been implicated as inhibitors or chemorepellents in axon pathfinding, fasciculation and branching, and target selection. All semaphorins possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Additional sequence motifs C-terminal to the semaphorin domain allow classification into distinct subfamilies. Results demonstrate that transmembrane semaphorins, like the secreted ones, can act as repulsive axon guidance cues. This gene encodes a class 6 vertebrate transmembrane semaphorin that demonstrates alternative splicing. Several transcript variants have been identified and expression of the distinct encoded isoforms is thought to be regulated in a tissue- and development-dependent manner. [provided by RefSeq, Nov 2010]

Function Shows growth cone collapsing activity on dorsal root ganglion (DRG) neurons in vitro. May be a stop signal for the DRG neurons in their target areas, and possibly also for other neurons. May also be involved in the maintenance and remodeling of neuronal connections. [UniProt]

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

Cellular Localization Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Cell membrane; Single-pass type I membrane protein. Isoform 3: Cell membrane; Single-pass type I membrane protein. Isoform 4: Cell membrane; Single-pass type I membrane protein. Isoform 5: Cell membrane; Single-pass type I membrane protein. Isoform 7: Cytoplasm. [UniProt]



ARG82545 Human Semaphorin 6D ELISA Kit standard curve image

ARG82545 Human Semaphorin 6D ELISA Kit results of a typical standard run with optical density reading at 450 nm.