

ARG82385 Human Robo1 / DUTT1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82385-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82385-002	Standard	2 X 10 ng/vial	4°C
ARG82385-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82385-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82385-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82385-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82385-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82385-008	25X Wash buffer	20 ml	4°C
ARG82385-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82385-010	STOP solution	10 ml (Ready to use)	4°C
ARG82385-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82385 Human Robo1 / DUTT1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Robo1 / DUTT1 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Robo1 / DUTT1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.9% Inter-Assay CV: 6.5%

Alternate Names Deleted in U twenty twenty; H-Robo-1; DUTT1; Roundabout homolog 1; SAX3

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 ROBO1

Gene Full Name roundabout guidance receptor 1

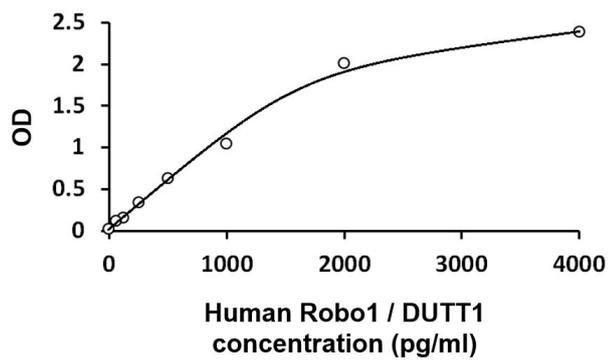
Background Bilateral symmetric nervous systems have special midline structures that establish a partition between the two mirror image halves. Some axons project toward and across the midline in response to long-range chemoattractants emanating from the midline. The product of this gene is a member of the immunoglobulin gene superfamily and encodes an integral membrane protein that functions in axon guidance and neuronal precursor cell migration. This receptor is activated by SLIT-family proteins, resulting in a repulsive effect on glioma cell guidance in the developing brain. A related gene is located at an adjacent region on chromosome 3. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Function Receptor for SLIT1 and SLIT2 which are thought to act as molecular guidance cue in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development. In axon growth cones, the silencing of the attractive effect of NTN1 by SLIT2 may require the formation of a ROBO1-DCC complex. May be required for lung development. [UniProt]

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

PTM Ubiquitinated. May be deubiquitinated by USP33. [UniProt]

Cellular Localization Cell membrane; Single-pass type I membrane protein. Cell projection, axon. Note=Detected at growth cones in thalamus neurons. [UniProt]



ARG82385 Human Robo1 / DUTT1 ELISA Kit standard curve image

ARG82385 Human Robo1 / DUTT1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.