

# Human Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1) ELISA Kit | ROBO1 elisa kit

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|-------------------------------|----------------------------|
| CATALOG #<br><b>AAA187809</b> | REACTIVITY<br><b>Human</b> |
|-------------------------------|----------------------------|

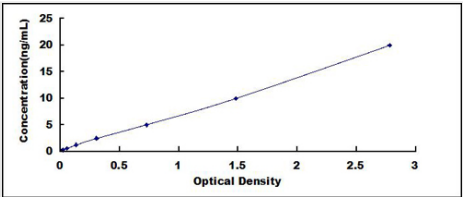
## PRODUCT SYNONYMS

Roundabout; Axon Guidance Receptor; Homolog 1 (ROBO1); Human Roundabout; Homolog 1 (ROBO1) ELISA Kit; DUTT1; SAX3; Roundabout homolog 1; Deleted in U twenty twenty; H-Robo-1; ROBO1 elisa kit

## PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1).<br>No significant cross-reactivity or interference between Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1) and analogues was observed.                                                                                                                                                                                                             |
| Sequence Length                                   | 1,551                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Assay Type                                        | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                                           | Tissue Homogenates, Cell Lysates and Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Detection Range                                   | 0.312-20ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity                                       | < 0.116ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                           |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                             |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ROBO1 elisa kit

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm  $\pm$  10nm. The concentration of Roundabout, Axon Guidance Receptor, Homolog 1 (ROBO1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| NCBI GI #                        | 119589291                                                                 |
| NCBI GeneID                      | 6091                                                                      |
| Molecular Weight                 | 169,661 Da                                                                |
| NCBI Official Full Name          | roundabout, axon guidance receptor, homolog 1 (Drosophila), isoform CRA_a |
| NCBI Official Synonym Full Names | roundabout guidance receptor 1                                            |
| NCBI Official Symbol             | ROBO1                                                                     |
| NCBI Official Synonym Symbols    | SAX3; DUTT1                                                               |
| NCBI Protein Information         | roundabout homolog 1                                                      |
| UniProt Protein Name             | Roundabout homolog 1                                                      |
| UniProt Gene Name                | <b>ROBO1</b>                                                              |
| UniProt Synonym Gene Names       | DUTT1                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/roundabout-axon-guidance-receptor-homolog-1-robo1/187809>