



Human Ephrin type-B receptor 2(EPHB2) ELISA kit

| | |
|-------------------------------------|---|
| Product Code | CSB-EL007730HU |
| Abbreviation | EPHB2 |
| Protein Biological Process 1 | Neurobiology |
| Target Name | EPH receptor B2 |
| Uniprot No. | P29323 |
| Alias | CAPB, DRT, EPHT3, ERK, Hek5, MGC87492, PCBC, Tyro5, elk-related tyrosine kinase eph tyrosine kinase 3 ephrin type-B receptor 2 protein-tyrosine kinase HEK5 |
| Product Type | ELISA Kit |
| Immunogen Species | Homo sapiens (Human) |
| Protein Biological Process 3 | Neurogenesis |
| Sample Types | serum, plasma, tissue homogenates |
| Detection Range | 0.625 ng/mL-40 ng/mL |
| Sensitivity | 0.156 ng/mL |
| Assay Time | 1-5h |
| Sample Volume | 50-100ul |
| Detection Wavelength | 450 nm |
| Lead Time | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. |
| Research Area | Neuroscience |
| Gene Names | EPHB2 |
| Tag Info | quantitative |
| Protein Description | Sandwich |
| Description | This Human EPHB2 ELISA Kit was designed for the quantitative measurement of Human EPHB2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL. |
| Target Details | Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A |



(EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. This protein is a receptor for ephrin-B family members.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human EPHB2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

| | | |
|-----|-----------|------------|
| ? | Sample | Serum(n=4) |
| | Average % | 91 |
| 1:1 | Range % | 88-96 |
| | Average % | 96 |
| 1:2 | Range % | 90-101 |
| | Average % | 97 |
| 1:4 | Range % | 90-104 |
| | Average % | 101 |
| 1:8 | Range % | 96-106 |

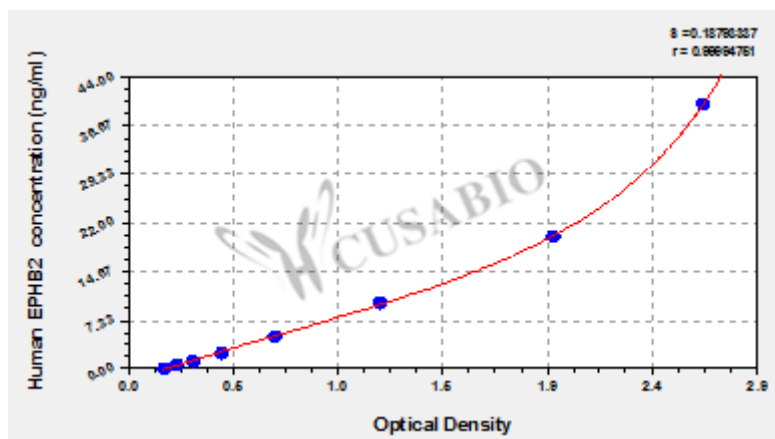
Recovery

The recovery of human EPHB2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| Sample Type | Average % Recovery | Range |
|-------------------|--------------------|--------|
| Serum (n=5) | 91 | 88-95 |
| EDTA plasma (n=4) | 96 | 92-100 |

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



| ng/ml | OD1 | OD2 | Average | Corrected |
|-------|-------|-------|---------|-----------|
| 40 | 2.607 | 2.688 | 2.648 | 2.462 |
| 20 | 1.935 | 1.985 | 1.960 | 1.774 |
| 10 | 1.125 | 1.212 | 1.169 | 0.983 |
| 5 | 0.683 | 0.698 | 0.691 | 0.505 |
| 2.5 | 0.442 | 0.447 | 0.445 | 0.259 |
| 1.25 | 0.309 | 0.323 | 0.316 | 0.130 |
| 0.625 | 0.230 | 0.246 | 0.238 | 0.052 |
| 0 | 0.182 | 0.190 | 0.186 | ? |

Msds

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