



# Human Integrin alpha-IIb(ITGA2B) ELISA kit

|                              |                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product Code                 | CSB-EL011865HU                                                                                                                   |
| Abbreviation                 | ITGA2B                                                                                                                           |
| Protein Biological Process 1 | Cell Adhesion                                                                                                                    |
| Target Name                  | integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)                                                 |
| Uniprot No.                  | P08514                                                                                                                           |
| Alias                        | CD41, CD41B, GP2B, GPIIb, GTA, HPA3, integrin alpha 2b platelet fibrinogen receptor, alpha subunit platelet-specific antigen BAK |
| Product Type                 | ELISA Kit                                                                                                                        |
| Immunogen Species            | Homo sapiens (Human)                                                                                                             |
| Protein Biological Process 3 | Cell adhesion                                                                                                                    |
| Sample Types                 | serum, plasma, tissue homogenates, cell lysates                                                                                  |
| Detection Range              | 0.156 ng/mL-10 ng/mL                                                                                                             |
| Sensitivity                  | 0.039 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                | Signal Transduction                                                                                                              |
| Gene Names                   | ITGA2B                                                                                                                           |
| Tag Info                     | quantitative                                                                                                                     |
| Protein Description          | Sandwich                                                                                                                         |

|             |                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | This Human ITGA2B ELISA Kit was designed for the quantitative measurement of Human ITGA2B protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL. |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target Details | ITGA2B encodes integrin alpha chain 2b. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 2b undergoes post-translational cleavage to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibronectin receptor expressed in platelets that plays a crucial role in coagulation. Mutations that interfere with this role result in thrombasthenia. In addition to adhesion, integrins are known to |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



participate in cell-surface mediated signalling.

## 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 ITGA2B 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) |
|-----|-----------|------------|
| 1:1 | Average % | 103        |
|     | Range %   | 93-107     |
| 1:2 | Average % | 98         |
|     | Range %   | 90-103     |
| 1:4 | Average % | 89         |
|     | Range %   | 81-92      |
| 1:8 | Average % | 96         |
|     | Range %   | 88-100     |

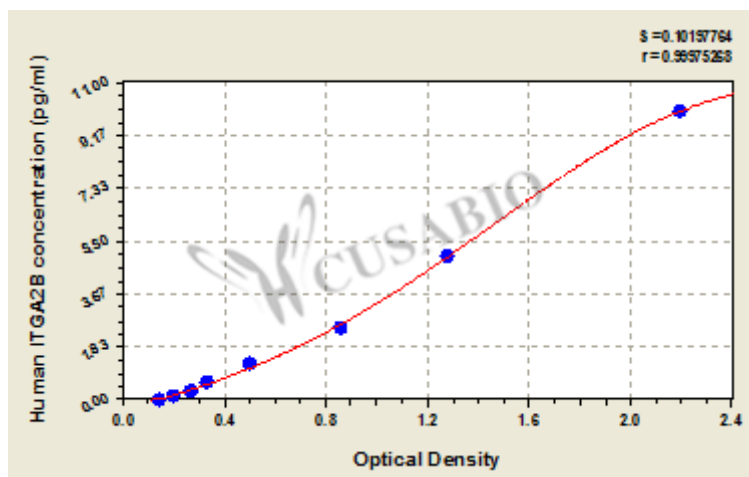
## Recovery

The recovery of human ITGA2B 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)       | 90                 | 83-94  |
| EDTA plasma (n=4) | 104                | 94-109 |

## 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 |
|-------|-------|-------|---------|-----------|
| 10    | 2.293 | 2.144 | 2.219   | 2.062     |
| 5     | 1.325 | 1.274 | 1.300   | 1.143     |
| 2.5   | 0.881 | 0.867 | 0.874   | 0.717     |
| 1.25  | 0.513 | 0.523 | 0.518   | 0.361     |
| 0.625 | 0.346 | 0.351 | 0.349   | 0.192     |
| 0.312 | 0.289 | 0.280 | 0.285   | 0.128     |
| 0.156 | 0.212 | 0.219 | 0.216   | 0.059     |
| 0     | 0.159 | 0.155 | 0.157   | ?         |

## Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL011865HU.pdf",
    "filename": "MSDS"
  }
}
```