

## Mouse Cytochrome b-245 Beta Polypeptide (CYBb) ELISA Kit | CYBb elisa kit

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CATALOG #  
**AAA189802**

REACTIVITY  
**Mouse**

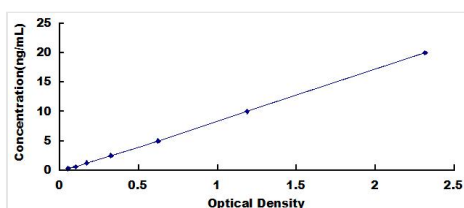
### PRODUCT SYNONYMS

Cytochrome b-245 Beta Polypeptide (CYBb); Mouse Cytochrome b-245 Beta Polypeptide (CYBb) ELISA Kit; CGD; GP91PHOX; NOX2; Neutrophil cytochrome b91; Cytochrome b558 beta; Heme-binding membrane glycoprotein gp91phox; Superoxide-generating NADPH oxidase heavy chain; CYBb/Cytochrome b-245 Beta Polypeptide; CYBb elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CYBb. No significant cross-reactivity or interference between CYBb and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Samples                 | Mouse tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range         | 0.312-20ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sensitivity             | < 0.113ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYBb were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYBb were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage | Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)<br>Shelf Life: 8 months<br>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. 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 CYBb elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CYBb. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CYBb. 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 CYBb, 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 ± 10nm. The concentration of CYBb in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CYBb in mouse tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
| Product Categories/Family for CYBb elisa kit   | Metabolic pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 161333819                                                                                                                                                                                        |
| NCBI GeneID                      | 13058                                                                                                                                                                                            |
| NCBI Accession #                 | NP_031833.3                                                                                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_007807.5                                                                                                                                                                                      |
| UniProt Accession #              | Q61093                                                                                                                                                                                           |
| Molecular Weight                 | 65,305 Da                                                                                                                                                                                        |
| NCBI Official Full Name          | cytochrome b-245 heavy chain                                                                                                                                                                     |
| NCBI Official Synonym Full Names | cytochrome b-245, beta polypeptide                                                                                                                                                               |
| NCBI Official Symbol             | Cybb                                                                                                                                                                                             |
| NCBI Official Synonym Symbols    | Cgd; Cyd; Nox2; C88302; gp91-1; gp91phox; CGD91-phox                                                                                                                                             |
| NCBI Protein Information         | cytochrome b-245 heavy chain; NADPH oxidase 2; p22 phagocyte B-cytochrome; cytochrome b558 subunit beta; neutrophil cytochrome b 91 kDa polypeptide; heme-binding membrane glycoprotein gp91phox |
| UniProt Protein Name             | Cytochrome b-245 heavy chain                                                                                                                                                                     |
| UniProt Gene Name                | Cybb                                                                                                                                                                                             |
| UniProt Synonym Gene Names       | Cgd; Cytochrome b558 subunit beta                                                                                                                                                                |
| UniProt Entry Name               | CY24B_MOUSE                                                                                                                                                                                      |

**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/mouse-elisa-kits/cytochrome-b-245-beta-polypeptide-cybb/189802>