

## Human Histidine-Rich Glycoprotein, HRG ELISA Kit | HRG elisa kit

Human Histidine-Rich Glycoprotein, HRG Primacu ELISA Kit

CATALOG #  
**AAA124331**

REACTIVITY  
**Human**

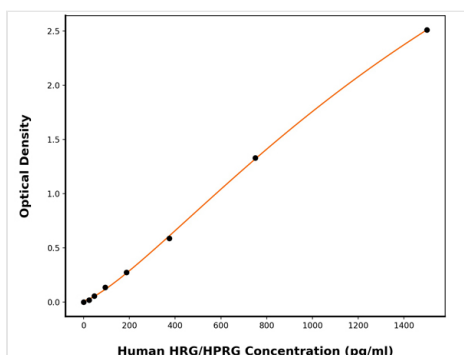
### PRODUCT SYNONYMS

Histidine-Rich Glycoprotein; HRG; Human Histidine-Rich Glycoprotein; HRG Primacu ELISA Kit; Histidine-rich glycoprotein; HRG elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                        |
|-------------------------|----------------------------------------|
| Reactivity              | Human                                  |
| Assay Type              | Sandwich                               |
| Samples                 | Serum, plasma, cell culture supernates |
| Detection Range         | 23.44-1500pg/mL                        |
| Sensitivity             | 7.66pg/mL                              |
| Standard Solution       | 10ng/mL                                |
| Assay Time              | 3.5h                                   |
| Preparation and Storage | Store at 2-8 degree C                  |

### IMAGES



Standard Curve (Sample)

Typical Testing Data/Standard Curve (for reference only)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for HRG elisa kit | Histidine-rich glycoprotein, also known as HRG and HPRG, is a glycoprotein located in plasma and platelets and contains an unusually large amount of histidine and proline. In humans, five distinct domains are recognized in the mature HPRG molecule. There are two N-terminal cystatin-like modules (aa 19 - 254) and one His-Pro-rich region (aa 350 - 497) that is flanked by two Pro-rich segments (aa 276 - 321 and 498 - 525). The His-Pro-rich region contains 10 tandem repeats with an HHPHG motif, and the N- and C-termini are linked by a disulfide bond. The specific functions of HRG remain unclear, but it is known that the protein binds heme, dyes, and divalent metal ions. It inhibits rosette formation and interacts with heparin, thrombospondin, and plasminogen. Two of the protein's effects, the inhibition of fibrinolysis, and the reduction of inhibition of coagulation indicate a potential prothrombotic effect. HPRG is evolutionarily, functionally, and structurally related to cleaved high molecular weight kininogen (HKa), an anti-angiogenic polypeptide that stimulates apoptosis of proliferating endothelial cells through binding to cell-surface tropomyosin. The antiangiogenic activity of the multidomain plasma protein HPRG is localized to its histidine-proline-rich (H/P) domain and has recently been shown to be mediated, at least partially, through binding to cell-surface tropomyosin in fibroblast growth factor-2-activated endothelial cells. |
| Product Categories/Family for HRG elisa kit   | Primacu ELISA Kit; Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                             |
|----------------------------------|-----------------------------|
| NCBI GI #                        | 4504489                     |
| NCBI GeneID                      | 3273                        |
| NCBI Accession #                 | NP_000403.1                 |
| NCBI GenBank Nucleotide #        | NM_000412.4                 |
| UniProt Accession #              | P04196; B9EK35; D3DNU7      |
| Molecular Weight                 | 59,578 Da                   |
| NCBI Official Full Name          | histidine-rich glycoprotein |
| NCBI Official Synonym Full Names | histidine rich glycoprotein |
| NCBI Official Symbol             | HRG                         |
| NCBI Official Synonym Symbols    | HPRG; HRGP; THPH11          |
| NCBI Protein Information         | histidine-rich glycoprotein |
| UniProt Protein Name             | Histidine-rich glycoprotein |
| UniProt Gene Name                | HRG                         |
| UniProt Synonym Gene Names       | HPRG                        |

**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.