abcam

Product datasheet

# Human BSG ELISA Kit (CD147) ab119592

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## Overview

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| **Product name** | Human BSG ELISA Kit (CD147) |
| **Detection method** | Colorimetric |
| **Sample type** | Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma |
| **Assay type** | Sandwich (quantitative) |
| **Sensitivity** | < 2 pg/ml |
| **Range** | 31.2 pg/ml - 2000 pg/ml |
| **Assay duration** | Multiple steps standard assay |
| **Species reactivity** | **Reacts with:** Human |
| **Product overview** | Abcam's Human BSG (CD147) *in vitro* ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the accurate quantitative measurement of Human BSG in cell culture supernatants, serum, (heparin, EDTA), saliva, urine and Human milk.<br><br>A BSG specific mouse monoclonal antibody has been precoated onto 96-well plates. Standards and test samples are added to the wells and incubated. A biotinylated detection polyclonal antibody from goat, specific for BSG is then added followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. TMB is then used to visualize the HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the Human BSG amount of sample captured in plate. |
| **Platform** | Microplate |

## Properties

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| **Storage instructions** | Store at -20°C. Please refer to protocols. |

| Components | Identifier | 1 x 96 tests |
|---|---|---|
| ABC Diluent Buffer | Blue Cap | 1 x 12ml |
| Antibody Diluent Buffer | Green Cap | 1 x 12ml |
| Anti-Human BSG antibody Microplate (12 x 8 wells) | | 1 unit |

| Components | Identifier | 1 x 96 tests |
|---|---|---|
| Avidin-Biotin-Peroxidase Complex (ABC) | | 1 x 100µl |
| Biotinylated anti-Human BSG antibody | | 1 x 100µl |
| Lyophilized recombinant Human BSG standard | | 2 x 10ng |
| Plate Seal | | 4 units |
| Sample Diluent Buffer | Green Cap | 1 x 30ml |
| TMB Color Developing Agent | Amber Bottle | 1 x 10ml |
| TMB Stop Solution | Yellow Cap | 1 x 10ml |
| Wash Buffer (25X) | | 1 x 20ml |

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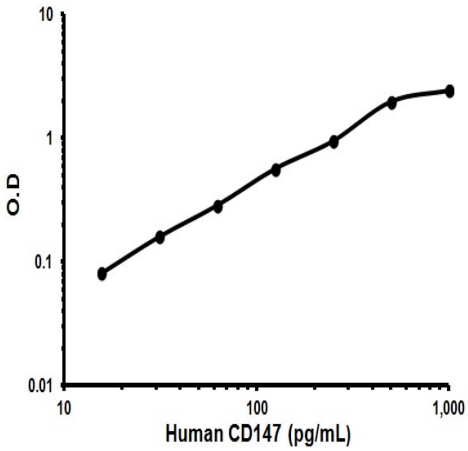
| **Function** | Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. |
| **Tissue specificity** | Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas. |
| **Sequence similarities** | Contains 1 Ig-like C2-type (immunoglobulin-like) domain.<br>Contains 1 Ig-like V-type (immunoglobulin-like) domain. |
| **Post-translational modifications** | N-glycosylated. |
| **Cellular localization** | Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV. |

## Images




Typical Standard Curve

Representative Standard Curve using ab119592

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