

## Human Serpin A1/AAT ELISA Kit | AAT elisa kit

Human Serpin A1/AAT PicoKine ELISA Kit

CATALOG #  
AAA124994

REACTIVITY  
Human

### PRODUCT SYNONYMS

Serp A1/AAT; Human Serpin A1/AAT PicoKine ELISA Kit; Human Serpin A1; AAT elisa kit

### PRODUCT SPECIFICATIONS

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity            | Human                                                                                                                                                 |
| Specificity           | Natural and recombinant Human S100B                                                                                                                   |
| Samples               | Cell Culture Supernates, Serum And Plasma (Heparin, Edta, Citrate)                                                                                    |
| Detection Range       | 156pg/ml-10000pg/ml                                                                                                                                   |
| Sensitivity           | <50pg/ml                                                                                                                                              |
| Intra-assay Precision | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision      |
| Inter-assay Precision | Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision. |

### ADDITIONAL INFORMATION

#### Related Product Information for AAT elisa kit

Principle of the Assay: The Picokine Human S100B Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human S100B with a 96-well strip plate that is pre-coated with antibody specific for S100B. The detection antibody is a biotinylated antibody specific for S100B. The capture antibody is A monoclonal antibody from mouse, the detection antibody is a biotinylated detection polyclonal antibody from goat. The kit contains recombinant Human S100B with immunogen: Expression system for standard: E.coli, Immunogen sequence: S2-E92. The kit is analytically validated with ready to use reagents. To measure Human S100B, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Human S100B in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human S100B in the sample!!Background/Introduction: S100 calcium-binding protein B (S100B) is a protein of the S-100 protein family. S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. This protein may function in Neurite extension, proliferation of melanoma cells, stimulation of Ca2+ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.

**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.