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## Product Datasheet

### Rat GSTM1 protein, His tag, Unconjugated GTX00356-PRO

|                          |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | Rat GSTM1 protein, His tag, Unconjugated                                                                                                                                    |
| Artikelnummer            | GTX00356-PRO                                                                                                                                                                |
| Hersteller Artikelnummer | GTX00356-pro                                                                                                                                                                |
| Alternativnummer         | GTX00356-PRO-10                                                                                                                                                             |
| Hersteller               | GeneTex                                                                                                                                                                     |
| Kategorie                | Proteine/Peptide                                                                                                                                                            |
| Applikation              | FA                                                                                                                                                                          |
| Spezies Reaktivität      | Rat                                                                                                                                                                         |
| Konjugation              | Unconjugated                                                                                                                                                                |
| NCBI                     | <a href="#">24423</a>                                                                                                                                                       |
| UniProt                  | <a href="#">P04905</a>                                                                                                                                                      |
| Puffer                   | Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System        | E. coli                                                                                                                                                                     |
| Formulierung             | Lyophilized powder                                                                                                                                                          |
| Sequenz                  | Full length protein, N-terminal His-Tag, Met1~Lys218 (NP_058710.1)                                                                                                          |

Anwendungsbeschreibung

Glutathione S-transferase Mu 1 (GSTM1) belongs to the mu class. GSTM1 can detoxifying carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Besides, uncoupling Protein 1 (UCP1) has been identified as an interactor of GSTM1, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat GSTM1 and recombinant rat UCP1. Briefly, GSTM1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to UCP1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-GSTM1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of of GSTM1 and UCP1 was in a dose dependent manner.