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# Product Datasheet

## Human AMH protein, His tag, Unconjugated
## GTX00109-PRO

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| Artikelname | Human AMH protein, His tag, Unconjugated |
| Artikelnummer | GTX00109-PRO |
| Hersteller Artikelnummer | GTX00109-pro |
| Alternativnummer | GTX00109-PRO-10 |
| Hersteller | GeneTex |
| Kategorie | Proteine/Peptide |
| Applikation | FA |
| Spezies Reaktivität | Human |
| Konjugation | Unconjugated |
| NCBI | 268 |
| UniProt | P03971 |
| 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 | N-terminal His-Tag, confidential (NP_000470.2) |

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| Anwendungsbeschreibung | Anti-Müllerian hormone (AMH), also named Müllerian inhibiting substance (MIS) belongs to a tissue-specific TGF-beta superfamily growth factor. It can be expressed by male sertoli cells and postnatal testis, and ovarian granulosa cells of females postpartum. AMH expression is critical to sex differentiation at a specific time during fetal development, it appears to be tightly regulated by SF1, GATA factors, DAX1 and FSH. AMH signals through a characteristic receptor consisting of a type I and a type II receptor serine/threonine kinase. Especially the type II receptor is unique and specific receptor for AMH. Besides, Mothers Against Decapentaplegic Homolog 9 (Smad9) has been identified as an interactor of AMH, thus a binding ELISA assay was conducted to detect the interaction of recombinant human AMH and recombinant human (Smad9) Briefly, AMH were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to Smad9-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-AMH 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 µl stop solution to the wells and read at 450nm immediately. The binding activity of of AMH and Smad9 was in a dose dependent manner. |