Anti-Müllerian hormone is a 140 kDa glycoprotein that is produced during normal embryogenesis by the sertoli cells of the embryonic testis. It causes the involution of the müllerian duct and inhibits female gonadogenesis by inducing apoptosis of target gonadal cells. AMH causes apoptosis of specific müllerian inhibiting substance (MIS) receptor-bearing cells, while having no effect on cells without receptors.

Low-end detection of AMH is important in many research applications. The picoAMH ELISA is perfectly suited to the measurement of declining levels of AMH in studies of gonadotoxicity, oncofertility, primary ovarian insufficiency, premature ovarian aging, and menopause.

AMH concentration in a sample does not appear to be impacted significantly by normal storage and transportation conditions if proper sample collection practices are followed.

**Ansh Labs Advantage**

- **Analytical measurable range of 3.8 - 1,091 pg/mL**
- **analytical sensitivity to < 1.2 pg/mL to distinguish declining AMH levels; the only assay available to measure AMH in this range**

**Specific to human AMH (associated form)**

- detects the full length and enhanced biologically active non-covalent complex forms of human AMH

- **Standardized recombinant human AMH calibrators**

- ensure accuracy and reproducibility assay-to-assay and lot-to-lot

- **Unique mAbs developed against specific linear epitopes on the associated dimers of AMH**

- specificity and consistency of AMH detection, no detectable cross-reactivity to other isoforms of AMH, different conformations of AMH, or other TGF-ß superfamily hormones; no interference by complement or heterophilic antibodies

- **Sample size is not the limitation of the assay**

- optimized for dilution in the well; assay can be performed with as little as 5 μL sample size for higher concentrations of AMH, or up to 50 μL of sample when sensitivity down to ~2 pg/mL is required

**Specific**

Specific to the full length and cleaved complex forms of AMH

**Reliable**

In accordance with NCCLS EP-6-P standards, serum samples were diluted and analyzed. Linearity of results was seen regardless of dilution—from Neat to 1:320.
picoAMH is a useful research tool in Reproductive Endocrinology studies related to:

- Primary ovarian insufficiency
- Menopause
- Oncofertility
- Premature ovarian aging
- Gonadotoxicity

**ELISA 96 Wells**

<table>
<thead>
<tr>
<th>Method</th>
<th>Quantitative three-step sandwich type immunoassay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incubation Time</td>
<td>Total 4.5 hour incubation at room temperature</td>
</tr>
<tr>
<td>Approximate Dynamic Range</td>
<td>7 points, 3.8-1,091 pg/mL</td>
</tr>
<tr>
<td>Limit of Detection</td>
<td>1.2 pg/mL</td>
</tr>
<tr>
<td>Sample Size / Type</td>
<td>5 μL to 50 μL diluted / Serum, Plasma</td>
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<tr>
<td>Shelf-life</td>
<td>24 months</td>
</tr>
</tbody>
</table>

**Ordering Information**

- picoAMH: 96-Well ELISA AL-124*
- AMH, Ultra Sensitive: 96-Well CLIA AL-105*
- Ansh® Check™ AMH Tri-Level Controls: 3 vials (L, M, H) AL-CTR-401*

Additionally, we have proteins and many monoclonal antibodies to Inhibin B and other hormones in the TGF-beta superfamily.

Call us today or visit [AnshLabs.com](http://AnshLabs.com) to see what’s new in our lab.

Ansh Labs is ISO 13485 and ISO 9001 certified for design, development, manufacturing, services and distribution of reagents/immunoassay kits for research and in vitro diagnostic applications.

**Customer Relations**

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*Unless otherwise stated in our catalog or other product documentation, these kits are intended for research use only and not for in vitro diagnostic purposes or therapeutic uses.