

# Anti-Müllerian Hormone (AMH)

A new serum marker that provides the most accurate assessment of ovarian reserve

The measurement of anti-müllerian hormone (AMH) has gained widespread interest as an indicator of ovarian function and menopausal transition. It is a hormone made by the small follicles in the ovary and circulating levels of AMH positively correlate with the number of remaining ovarian follicles. The AMH assay is quickly becoming a routine test in determining ovarian reserve, identifying hyper-stimulation syndrome in women undergoing in vitro fertilization (IVF), and in diagnosing polycystic ovary syndrome.

AMH is a member of the transforming growth factor  $\beta$  family and is expressed by granulosa cells of the ovary during a female's reproductive years. AMH serum levels serve as a biomarker for relative capacity of the ovarian reserve and consequently, AMH is considered an extremely sensitive marker of ovarian aging. In addition, AMH evaluation is of clinical importance in predicting the success of in vitro fertilization (IVF) and can be used as a surrogate diagnostic marker of polycystic ovary syndrome in cases in which ultrasonographic examination is not possible.

The AMH gene is located on chromosome 19 and encodes an inactive homodimer precursor of identical disulfide-linked 70-kDa glycoproteins. Each monomer contains a pro-region (pro-AMH or N-terminal) and a C-terminal domain (also called the "mature" region) which is cleaved at monobasic sites between the two domains. After cleavage, the pro-region (110-kDa) and C-terminal (25 kDa) homodimers remain associated in a noncovalent complex that bind to AMH Receptor II and activate signaling.

## Anti-Müllerian Hormone (AMH) Protein Structure

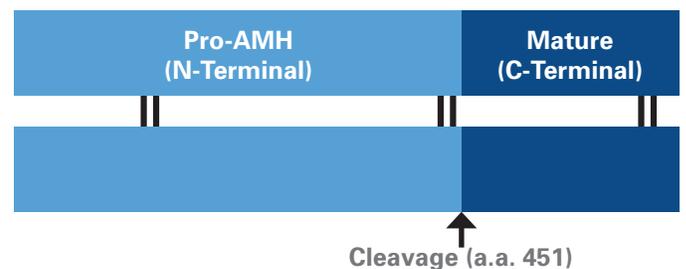


Figure based from C. Heule, W. Salzburger, and A. Böhn, *Genetics*. 196: 579–591 (2014)

# MERIDIAN ANTI-MÜLLERIAN HORMONE ANTIBODIES AND ANTIGENS

## MONOCLONAL ANTIBODIES

- Specific for AMH
- Suitable for use in ELISA, CLIA and LF assays

E01347M	E01353M
E01348M	E01354M
E01352M	E01355M
9602	9603
E01349M	E01350M

## RECOMBINANT ANTIGENS

9604	<ul style="list-style-type: none"><li>• Rec. AMH Antigen</li><li>• Produced in insect cells</li><li>• Suitable for use in ELISA and WB</li></ul>
R01712	<ul style="list-style-type: none"><li>• Rec. AMH Antigen</li></ul>
R01713	<ul style="list-style-type: none"><li>• Produced in <i>E.coli</i></li><li>• Suitable for use in sandwich and competitive ELISAs and WB.</li></ul>

## PAIRING INFORMATION

### Sandwich Assay

Capture MAb	Detection MAb	Recombinant Antigen
9602	9603	9604
E01347M	E01348M	R01712
E01349M	E01350M	R01713
E01352M	E01353M	-
E01354M	E01355M	-

### Competitive Assay

Antibody	Antigen
E01347M	R01713
E01349M	R01713



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