

DESCRIPTION

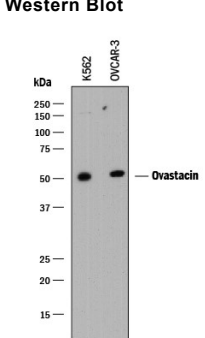
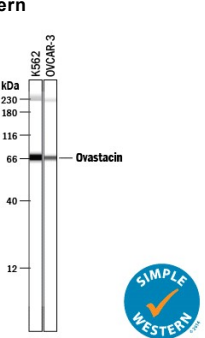

Species Reactivity	Human
Specificity	Detects human Ovastacin in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human BMP-1 is observed.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Ovastacin Ala24-Asp431 Accession # Q6HA08
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1:1000 dilution	See Below
Simple Western	1:100 dilution	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human Ovastacin by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and OVCAR-3 human ovarian carcinoma cell line. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human Ovastacin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8549) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Ovastacin at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Simple Western</p>  <p>Detection of Human Ovastacin by Simple Western™. Simple Western lane view shows lysates of K562 human chronic myelogenous leukemia cell line and OVCAR-3 human ovarian carcinoma cell line, loaded at 0.2 mg/mL. Specific bands were detected for Ovastacin at approximately 69 kDa (as indicated) using 1:100 dilution of Rabbit Anti-Human Ovastacin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8549). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.</p> 
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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C, as supplied. ● 1 month, 2 to 8 °C under sterile conditions after opening. ● 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

Ovastacin (ASTL, astacin-like metallo-endopeptidase and Oocyte astacin) is a 50 kDa member of the peptidase M12A family of proteins. Ovastacin is an oocyte-specific oolemmal receptor involved in sperm and egg adhesion and fertilization, it plays a role in the polyspermy inhibition. Human Ovastacin is a metalloendopeptidase that contains three zinc binding domains. Ovastacin cleaves the sperm-binding ZP2 at the surface of the zona pellucida after fertilization and cortical granule exocytosis, rendering the zona pellucida unable to support further sperm binding. Over aa 24-431, human Ovastacin shares 68% aa identity with mouse Ovastacin.