

Human Phospho-Progesterone R/NR3C3 (S294) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF5955

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Phospho-Progesterone R/NR3C3 (S294) in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human Progesterone RB S294 site Accession # P06401
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

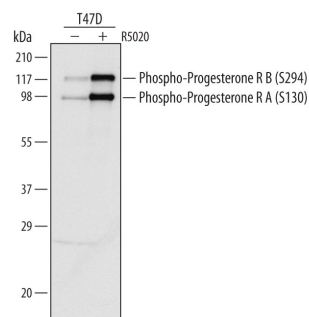
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human Phospho-Progesterone RB (S294) and Phospho-Progesterone RA (S130) by Western Blot.
Western blot shows lysates of T47D human breast cancer cell line untreated (-) or treated (+) with 100 nM synthetic progesterin promegestone (R5020) for 60 minutes. PVDF Membrane was probed with 0.5 µg/mL of Rabbit Anti-Human Phospho-Progesterone R/NR3C3 (S294) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5955) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for Phospho-Progesterone RB (S294) at approximately 118 kDa and Phospho-Progesterone RA (S130) at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. 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 reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Progesterone Receptor B (PR-B) is a 118 kDa member of the NR3 subfamily within the nuclear hormone receptor family of proteins. It is expressed in female reproductive tissues as well as neurons throughout the CNS. PR-B is particularly important in the mammary gland where it mediates proliferative responses to progesterone. Human PR-B is 933 amino acids (aa) in length. It contains an N-terminal regulatory region (aa 1-566), a DNA binding domain (aa 567-639), and a steroid-binding region (aa 681-933). Ligand binding induces a key phosphorylation event at Ser294 catalyzed by ERK1/2, regulating cell growth, cell adhesion, and gene transcription. An alternate start site at Met165 generates 90 kDa PR-A, an isoform particularly important in the ovary and uterus that insures fertility.