Human Progesterone R B/NR3C3 Antibody

Monoclonal Mouse IgG_{2B} Clone # 569012

Catalog Number: MAB5886

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Progesterone R B in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 569012
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Progesterone R B Met1-Leu189 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 as a 0.2 μm filtered solution in PBS.

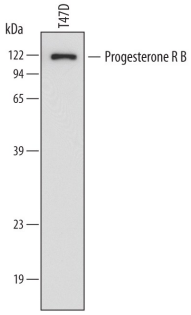
APPLICATIONS

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 µg/mL	See Below
Immunocytochemistry	3-25 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below

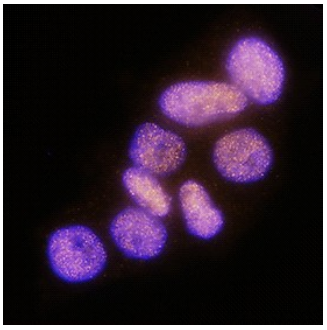
DATA

Western Blot



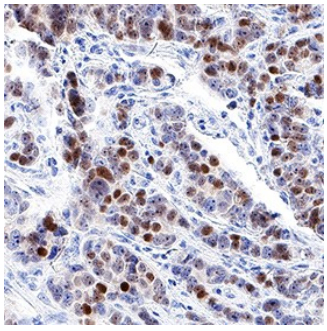
Detection of Human Progesterone R B/NR3C3 by Western Blot. Western blot shows lysates of T47D human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Progesterone R B/NR3C3 Monoclonal Antibody (Catalog # MAB5886) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Progesterone R B/NR3C3 at approximately 118 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Immunocytochemistry



Progesterone R B/NR3C3 in T47D Human Cell Line. Progesterone R B/NR3C3 was detected in immersion fixed T47D human breast cancer cell line using Mouse Anti-Human Progesterone R B/NR3C3 Monoclonal Antibody (Catalog # MAB5886) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



Progesterone R B/NR3C3 in Human Prostate Cancer Tissue. Progesterone R B/NR3C3 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Mouse Anti-Human Progesterone R B/NR3C3 Monoclonal Antibody (Catalog # MAB5886) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.** ● 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.

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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 several tissues, including female reproductive organs 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 contains an N-terminal regulatory region (aa1-566), a DNA binding domain (aa 567-639), and a steroid-binding region (aa 681-933). Ligand binding induces a key phosphorylation event at Ser294 by ERK1/2.

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