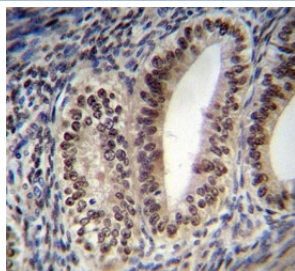


Progesterone Receptor Antibody / Isoforms A & B (F42683)

Catalog No.	Formulation	Size
F42683-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F42683-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P06401
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This Progesterone Receptor antibody is available for research use only.



Progesterone Receptor antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue.



Progesterone Receptor antibody western blot analysis in breast cancer cell line T47D lysate. Expected molecular weight: 82-94 kDa (PR-A) and 99-120 kDa (PR-B).

Description

As demonstrated in PR-deficient mice, the physiological effects of progesterone depend completely on the presence of its receptor (hPR), a member of the steroid-receptor superfamily of nuclear receptors. The single-copy hPR gene uses separate promoters and translational start sites to produce two isoforms, hPR-A and -B, which are identical except for an additional 165 amino acids present only in the N terminus of -B. Although hPR-B shares many important structural domains as -A, they are in fact two functionally distinct transcription factors, mediating their own response genes and physiological effects with little overlap. Selective ablation of PR-A in a mouse model, resulting in exclusive production of -B, unexpectedly revealed that -B contributes to, rather than inhibits, epithelial cell proliferation both in response to estrogen alone and in the presence of progesterone and estrogen. These results suggest that in the uterus, the PR-A isoform is necessary to oppose estrogen-induced proliferation as well as -B-dependent proliferation. [Wiki]

Application Notes

Titration of the Progesterone Receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 349-377 from the human protein was used as the immunogen for this Progesterone Receptor antibody.

Storage

Aliquot the Progesterone Receptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.