

**PR / Progesterone Receptor Antibody (aa371-420)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS15062****Specification**

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**PR / Progesterone Receptor Antibody (aa371-420) - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">P06401</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	99kDa KDa

**PR / Progesterone Receptor Antibody (aa371-420) - Additional Information****Gene ID** 5241**Other Names**

Progesterone receptor, PR, Nuclear receptor subfamily 3 group C member 3, PGR, NR3C3

**Target/Specificity**

Progesterone Receptor Antibody detects endogenous levels of total Progesterone Receptor protein.

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

**Precautions**

PR / Progesterone Receptor Antibody (aa371-420) is for research use only and not for use in diagnostic or therapeutic procedures.

**PR / Progesterone Receptor Antibody (aa371-420) - Protein Information****Name** PGR**Synonyms** NR3C3**Function**

The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Depending on the isoform, progesterone receptor functions as a transcriptional activator or repressor.

**Cellular Location**

Nucleus. Cytoplasm. Note=Nucleoplasmic shuttling is both hormone- and cell cycle-dependent. On hormone stimulation, retained in the cytoplasm in the G(1) and G(2)/M phases [Isoform 4]: Mitochondrion outer membrane

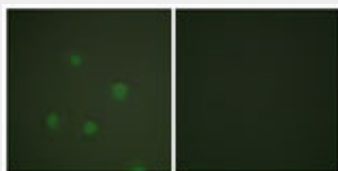
**Tissue Location**

In reproductive tissues the expression of isoform A and isoform B varies as a consequence of developmental and hormonal status. Isoform A and isoform B are expressed in comparable levels in uterine glandular epithelium during the proliferative phase of the menstrual cycle. Expression of isoform B but not of isoform A persists in the glands during mid-secretory phase. In the stroma, isoform A is the predominant form throughout the cycle. Heterogeneous isoform expression between the glands of the endometrium basalis and functionalis is implying region-specific responses to hormonal stimuli

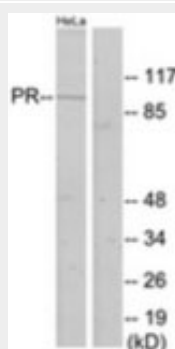
**Volume**50  $\mu$ l**PR / Progesterone Receptor Antibody (aa371-420) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

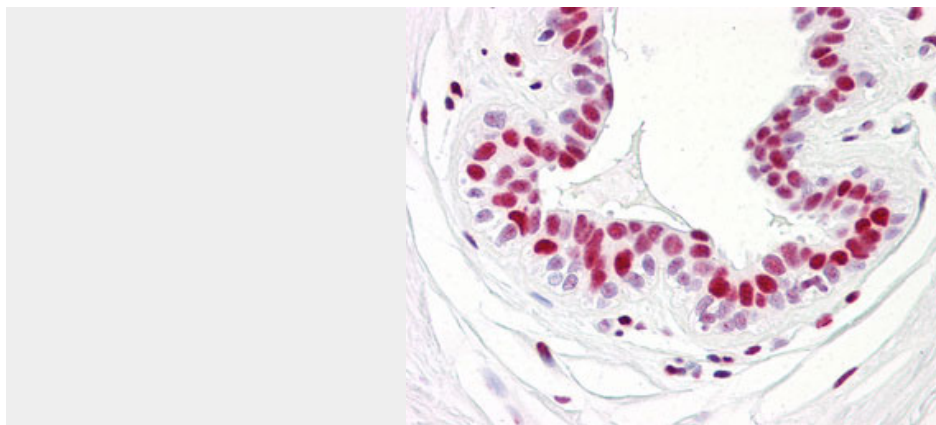
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PR / Progesterone Receptor Antibody (aa371-420) - Images**

Immunofluorescence of A549 cells, using Progesterone Receptor Antibody.



Western blot of extracts from HeLa cells, using Progesterone Receptor Antibody.



Anti-PGR / Progesterone Receptor antibody IHC of human breast.

#### **PR / Progesterone Receptor Antibody (aa371-420) - Background**

The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Progesterone receptor isoform B (PRB) is involved activation of c-SRC/MAPK signaling on hormone stimulation. Isoform 4: Increases mitochondrial membrane potential and cellular respiration upon stimulation by progesterone.

#### **PR / Progesterone Receptor Antibody (aa371-420) - References**

Kastner P.,et al.EMBO J. 9:1603-1614(1990).  
Misrahi M.,et al.Biochem. Biophys. Res. Commun. 143:740-748(1987).  
Kieback D.G.,et al.Submitted (JUL-1997) to the EMBL/GenBank/DDBJ databases.  
Hisatomi H.,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.  
Chen C.,et al.Mol. Phylogenet. Evol. 47:637-649(2008).