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Progesterone Receptor (Marker of Progestin Dependence) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM566]
Catalog # AH10666

Product Information

Application	IHC-P
Primary Accession	P06401
Other Accession	5241, 2905
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	SPM566
Calculated MW	98981

Additional Information

Gene ID	5241
Other Names	Progesterone receptor, PR, Nuclear receptor subfamily 3 group C member 3, PGR, NR3C3
Application Note	IHC-P~~N/A
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Progesterone Receptor (Marker of Progestin Dependence) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

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

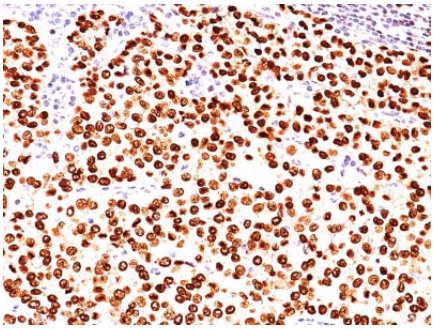
Background

This MAb is specific to progesterone receptor and shows minimal cross-reaction with other members of the family. Progesterone receptor is expressed as two major isoforms, PR-A (81kDa) and PR-B (116kDa). Expression of PgR has been suggested to reflect a intact estrogen regulatory machinery and therefore, predict better clinical response to endocrine therapy than ER alone. It is excellent for immunohistochemical staining of formalin/paraffin tissues.

References

Press M, et al. Steroids. 2002 Aug; 67(9):799-813. | Mote P, et al. J Clin Pathol., 2001; 54: 624-630

Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Progesterone Receptor Monoclonal Antibody (SPM566).