

Progesterone receptor (PR) recombinant protein

CatalogNo: YD3022

Key Features

Reactivity

- Human

Storage

Storage* -15°C to -25°C/1 year(Avoid freeze / thaw cycles)

Formulation Phosphate-buffered solution

Recommended Dilution Ratios

Basic Information

Source Mammalian cells

Purification Mammalian cells

Purity >90% as determined by SDS-PAGE

Clone Number PR

Immunogen Information

Sequence Amino acid:165-305,with human FC tag.

Target Information

Gene name PGR;NR3C3

Protein Name	Progesterone receptor (PR) (Nuclear receptor subfamily 3 group C member 3)		
	Organism	Gene ID	UniProt ID
	Human	5241;	P06401;
Cellular Localization	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 A]: Nucleus. Cytoplasm. Note=Mainly nuclear.; [Isoform 4]: Mitochondrion outer membrane .		
Tissue specificity	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.		
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.; [Isoform A]: Ligand-dependent transdominant repressor of steroid hormone receptor transcriptional activity including repression of its isoform B, MR and ER. Transrepressional activity may involve recruitment of corepressor NCOR2.; [Isoform B]: Transcriptional activator of several progesteron-dependent promoters in a variety of cell types. Involved in activation of SRC-dependent MAPK signaling on hormone stimulation.; [Isoform 4]: Increases mitochondrial membrane potential and cellular respiration upon stimulation by progesterone.		

Validation Data

Contact information

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