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## Progesterin Receptor Beta Rabbit pAb

Catalog Number: bs-11410R

Target Protein: Progesterin Receptor Beta

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), ELISA (1:5000-20000)

Reactivity: Human, Mouse

Predicted MW: 40 kDa

Entrez Gene: 85315

Swiss Prot: Q8TEZ7

Source: KLH conjugated synthetic peptide derived from human Progesterin Receptor Beta: 251-300/354.

Purification: affinity purified by Protein A

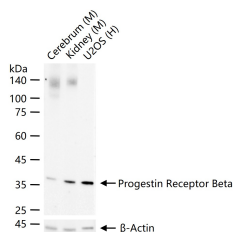
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The steroid progesterone induces the resumption of maturation in oocytes via a nongenomic pathway through binding to a novel membrane progesterin receptor (mPR). This pathway inhibits adenylyl cyclase and reduces intracellular cAMP, and also activates mitogen-activated protein kinase to effect signal transduction pathways. Five distinct groups, designated Alpha, Beta, Gamma, Delta, comprise the mPR gene family. mPR Alpha, also designated progesterin and adipo Theta receptor family member VII (PAQR7), consists of an extracellular N-terminus, an intracellular C-terminus and seven transmembrane domains. mPR Alpha is expressed in ovary, testis, placenta, uterus and bladder. mPR Beta, or progesterin and adipo Theta receptor family member VIII (PAQR8), consists of eight putative transmembrane regions and an intracellular N-terminus that contains a leucine-rich motif. mPR Beta is a 354 amino acid protein expressed in brain and spinal cord. Both mPR Alpha and mPR Beta may be G protein-coupled receptors and may be involved in oocyte maturation.

### VALIDATION IMAGES

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25 ug total protein per lane of various lysates (see on figure) probed with Progesterin Receptor Beta polyclonal antibody, unconjugated (bs-11410R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=17.173]** Thomas Topilko. et al. Edinger-Westphal peptidergic neurons enable maternal preparatory nesting. Neuron. 2022 Feb;; IHC ; Mouse . 35123655

**[IF=4.26]** Kasubuchi, Mayu, et al. "Membrane progesterone receptor beta (mPRβ/Paqr8) promotes progesterone-dependent neurite outgrowth in PC12 neuronal cells via non-G protein-coupled receptor (GPCR) signaling." Scientific Reports 7 (2017). WB ; ="Mouse" . 28701790

**[IF=2.299]** Gao XX et al. Effects of l-arginine on endometrial estrogen receptor α/β and progesterone receptor expression in nutrient-restricted sheep. Theriogenology. 2019 Jul 25;138:137-144. IHC,IF,WB ; ewe . 31352175