



Qty: 100 µL – sufficient for 10 mini-blots

Mouse anti-phospho-Progesterone Receptor (Ser190)

Catalog No. 37-8200

Lot No.

Mouse anti-phospho-Progesterone Receptor (Ser190)

FORM

This monoclonal antibody is supplied as a 100 µL aliquot in 10mM Hepes (pH 7.5), 150 mM NaCl, 100 µg/mL BSA, and 50% glycerol. This antibody is purified with ammonium sulfate followed by protein G affinity purification.

CLONE: 1154

ISOTYPE: Mouse IgG₁

IMMUNOGEN

Synthetic phospho peptide derived from a region of the human Progesterone Receptor (hPR) protein surrounding the phosphorylated Ser190 residue.

SPECIFICITY

This antibody is specific hPR phosphorylated at Ser190. On Western blots, it identifies a band at ~90 kDa representing the A-isoform and a band at ~115 kDa representing the B-isoform.

REACTIVITY

Reactivity has been confirmed with human T47D cells.

Sample	Immuno-histochemistry	Western Blotting
Human	+++	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunohistochemistry: 1:1000

Western Blotting: 1:1000

STORAGE

Store at 2-8°C for up to one month. Aliquot and store at –20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI378200

(Rev 10/08) DCC-08-1089

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BACKGROUND

Progesterone Receptor (PR) is phosphorylated on multiple serine residues located in the N-terminal domain and in the hinge region between the DNA and steroid binding domains.¹ The activity of PR can be regulated by its phosphorylation by cyclin-A/Cdk2, casein kinase II, and MAP kinase. Individual sites such as Ser190 enhance transcriptional activity, while Ser294 seem to be a site of convergence and regulation by crosstalk with other signaling pathways.²

Of the seven identified serine residues on which the human PR (hPR) is phosphorylated, four (Ser81, Ser162, Ser190 and Ser400) are basally phosphorylated and exhibit a rapid increase in phosphorylation in response to treatment with hormone.³ The other three sites (Ser102, Ser294 and Ser345) are hormone-inducible and reach maximal phosphorylation within 1-2 hours of treatment.³

REFERENCES

1. Takimoto GS, et al. *J Biol Chem* 271:13308-13316, 1996.
2. Zhang Y, et al. *Mol Endocrinol* 11:823-832, 1997.
3. Clemm DL, et al. *Mol Endocrinol* 14(1):52-65, 2000.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-Progesterone Receptor**	PR-2C5	18-0172
Mouse anti-phospho-Progesterone Receptor (Ser294)	608	37-8300

Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

*PAD: Polyclonal Antibody Designation

**Analyte Specific Reagent

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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