

# Anti human MR mouse monoclonal antibody

MR: Mineralocorticoid Receptor

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code No       | PP-H3122-00                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone No.     | H3122                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Lot.          | ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration | 1 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Volume        | 100 uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ig Class      | G2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description   | Mineralocorticoid receptor (MR; NR3C2) is a member of steroid receptor (AR, ER, GR, PR). Aldosterone binds to MR with a high affinity. MR is expressed in kidney, gut, brain, pituitary, hypothalamus and heart. MR plays a critical role in regulating electrolyte and fluid balance in the kidney, as well as having specific roles in the central nervous system. The protein is expressed as a 107 kDa nuclear form. MR and GR can cooperatively form heterodimers. |

|              |                                                                                                                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nomenclature | NR3C2                                                                                                                                                                                                             |
| Genbank      | M16801                                                                                                                                                                                                            |
| Origin       | Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human MR (2-99 aa). |
| Specificity  | This antibody specifically recognizes human MR and cross reacts with mouse and rat MR.                                                                                                                            |

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| Purification | Ammonium sulfate fractionation                                     |
| Formulation  | Physiological saline with 0.1% NaN <sub>3</sub> as a preservative. |

## Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1 ug/mL

Non reducing Western Blot Not yet tested

ELISA 0.2 ug/mL

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry 20-40 ug/mL



Human  
Large Intestine  
paraffin section



Rat Large Intestine  
Epithelial cell  
paraffin section

**Storage** Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

**Reference** Jae Mi Suh, *et al.* Mol Endocrinol, Dec. 2006, 20(12): 3412-3420  
Jun Qin, *et al.* Developmental Dynamics, 2007, 236: 810-820

**Notes** Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

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**MADE IN JAPAN**

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