

## Product datasheet for **AM26255BT-N**

### **RP105 (CD180) Mouse Monoclonal Antibody [Clone ID: MHR73]**

#### **Product data:**

|                              |   |
|------------------------------|---|
| <b>Product Type:</b>         | Primary Antibodies  |
| <b>Clone Name:</b>           | MHR73   |
| <b>Applications:</b>         | IHC   |
| <b>Recommended Dilution:</b> | Flow cytometry: The typical starting working dilution is 1:50.<br>Immunohistochemistry on frozen sections: The typical starting working dilution is 1:50. |
| <b>Reactivity:</b>           | Human   |
| <b>Host:</b>                 | Mouse   |
| <b>Isotype:</b>              | IgG1  |
| <b>Clonality:</b>            | Monoclonal  |
| <b>Specificity:</b>          | The monoclonal antibody MHR73 reacts with human RP105 (CD180)   |
| <b>Formulation:</b>          | PBS<br>Label: Biotin<br>State: Liquid 0.2 µm filtered Ig fraction<br>Stabilizer: 0.1% bovine serum albumin<br>Preservative: 0.02% sodium azide            |
| <b>Concentration:</b>        | lot specific  |
| <b>Conjugation:</b>          | Biotin  |
| <b>Storage:</b>              | Store at 2 - 8 °C.  |
| <b>Stability:</b>            | Shelf life: one year from despatch.   |
| <b>Gene Name:</b>            | CD180 molecule  |
| <b>Database Link:</b>        | <a href="#">Entrez Gene 4064 Human Q99467</a>   |



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**Background:**

RP105 is a type 1 transmembrane protein of 105 kDa with extracellular leucine-rich repeats (LLRs) and a short cytoplasmic tail. RP105, assigned as CD180, is similar to Drosophila Toll in the extracellular LLRs. RP105 expression is largely restricted to immune cells including CD19+ B cells and macrophages. Histological studies showed that RP105 is expressed mainly on mature B cells in mantle zones. Antibody-mediated (MHR73) cross-linking of RP105 induces resistance against irradiation-induced apoptosis, B-cell proliferation, and up-regulation of a costimulatory molecule CD80, revealing RP105 as a potent regulator of B-cell activation. In this context it is important to note that RP105 is associated with MD1, and that it mediates B-cell surface expression and LPS recognition and signalling in cooperation with TLR4. MD-1 seems to be requisite for efficient expression of RP105.

**Synonyms:**

LY64