

## Product datasheet for **AM08071RP-N**

### CD81 / TAPA1 Hamster Monoclonal Antibody [Clone ID: 2F7]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | 2F7   |
| Applications:         | FC  |
| Recommended Dilution: | <b>Flow Cytometry:</b> Identification and enumeration of CD81+ cells ( $< / = 0.2 \mu\text{g}/10\text{e}6$ cells). (Ref.2)  |
| Reactivity:           | Mouse   |
| Host:                 | Hamster   |
| Isotype:              | IgG   |
| Clonality:            | Monoclonal  |
| Immunogen:            | Mouse epithelial cell line PAM212.  |
| Specificity:          | This antibody recognises Mouse CD81 (Mr 25 kDa), a member of the transmembrane 4 integral membrane protein family.<br>This antibody can block thymocyte interaction with CD81 <i>in vitro</i> . (Ref.2) |
| Formulation:          | PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.<br>Label: PE<br>State: Liquid purified Ig fraction.<br>Label: R-Phycoerythrin  |
| Concentration:        | lot specific  |
| Conjugation:          | PE  |
| Storage:              | Store the antibody undiluted at 2-8°C.<br><b>DO NOT FREEZE!</b><br>This product is photosensitive and should be protected from light.<br>Avoid repeated freezing and thawing.                           |
| Stability:            | Shelf life: one year from despatch.   |
| Gene Name:            | CD81 antigen  |
| Database Link:        | <a href="#">Entrez Gene 12520 Mouse P35762</a>  |



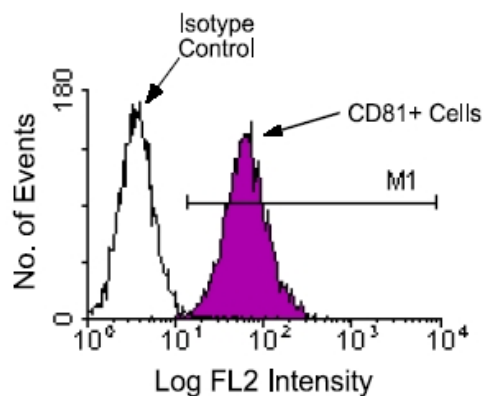
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**Background:**

TAPA1, or CD81, is a member of the transmembrane 4 superfamily, also known as the Tetraspanin family. Most of these members are cell surface proteins that are characterised by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TAPA1 is a cell surface glycoprotein that is known to complex with integrins. It appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. TAPA1 gene is localized in the tumor suppressor gene region and thus it is a candidate gene for malignancies.

**Synonyms:**

S5.7; TAPA-1; TAPA1; Tetraspanin-28; Tspan-28; TSPAN28

**Product images:**

Immunofluorescent Staining: The A20 cell line, a murine B cell lymphoma, was stained with Hamster anti-Mouse CD81-R-PE or Hamster IgG-PE isotype control, following which the cells were analyzed for the expression of CD81 on a FACScan (TM) flow cytometer (BD)