**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SM067P

## CD161 (KLRB1) Mouse Monoclonal Antibody [Clone ID: PK136]

### Product data:

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| **Product Type:** | Primary Antibodies |
| **Clone Name:** | PK136 |
| **Applications:** | CT, FC, IP |
| **Recommended Dilution:** | **Flow Cytometry:** Use 10 µl of 5-10 µg/ml diluted antibody to label 1 x 10e6 cells in 100 µl.<br>**Immunoprecipitation.**<br>**Cytotoxic Assays:** 1-10 µg/ml. |
| **Reactivity:** | Mouse |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Spleen and bone marrow cells from CE mice.<br>Spleen cells from immunised (C3H x BALB/c) F1 Hybrid were fused with cells of the Sp2/0 - Ag14 myeloma cell line. |
| **Specificity:** | This antibody (clone PK136) recognises the NK1.1 cell surface antigen. Although previously thought to recognise only CD161c, recent data has shown that the PK136 antibody may also react with CD161b. CD161c expression itself is strain specific in mice, but recognition of CD161b by PK136 appears to be even more complex, as only some CD161b positive strains are labelled by the antibody. Engagement of CD161c has been reported to have activating function in NK cells, whilst engagement of CD161b is inhibitory. This antibody is useful for the identification of NK cells in selected strains of mice (positive on C57BL, FVB/N and NZB, but negative on AKR and BALB/c) and is also expressed by rare subsets of T cells and monocytes. The antibody has also been used for in vivo depletion of NK cells and in vitro activation of NK cells.<br>**Negative Species:** Human, Rat. |
| **Formulation:** | PBS, pH 7.4 containing 0.09% Sodium Azide as preservative<br>State: Purified<br>State: Liquid purified IgG fraction |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography on Protein A |

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| **Conjugation:** | Unconjugated |
| **Storage:** | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | killer cell lectin like receptor B1 |
| **Database Link:** | Entrez Gene 3820 Human<br>Q12918 |
| **Background:** | NK1.1 is a cell surface glycoprotein encoded by members of the NKR-P1 gene family. In the mouse the NKR-P1 family has three members, NKR-P1A, -B and -C, whilst in the human only one member has been identified. The human protein has received the designation CD161, and the mouse proteins have been referred to as CD161a, -b, -c etc. |
| **Synonyms:** | HNKR-P1a, CLEC5B, NKRP1A |
| **Protein Families:** | Transmembrane |