

## ARG23180 anti-NCR1 antibody [VIV-KM1]

Package: 100 µg

Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody [VIV-KM1] recognizes NCR1<br>Mouse anti Pig CD335 antibody, clone VIV-KM1 recognizes the porcine homologue of human CD335, also known as NKp46 and natural cytotoxicity triggering receptor 1 (NCR1), a member of the natural cytotoxicity receptor (NCR) family. CD335 is a type I transmembrane protein, with two extracellular C2-type immunoglobulin-like domains, which functions as an activating receptor and is involved in the control of viral infection and tumor development. Until recently little has been known about porcine and veterinary NK cells. CD335 is expressed by human natural killer cells (Sivori, S. et al. 1997) and the development of monoclonal antibodies to bovine CD335 (clone ASK1) (Storset et al. 2004) and ovine CD335 (clone EC1.1) (Connelley et al. 2011) have enabled researchers to identify and better understand ruminant NK cells. Clone VIV-KM1 is the first monoclonal developed to specifically identify porcine CD335 and provides a reagent to facilitate a better understanding of the pig immune system and aid in the understanding of the role of NK cells in host pathogen defence. Studies using VIV-KM1 have shown that, within the pig, CD335 is not universally expressed by all NK cells and that expression of this marker on NK cells may be influenced by cytokine production (Mair et al. 2012). In addition to clone VIV-KM1, clones AKS1, which recognizes CD335 (NKp46) in bovine and other ruminants, and EC1.1, which recognizes ovine and caprine CD335. |
| Tested Reactivity   | Pig  |
| Tested Application  | FACS, ICC/IF   |
| Host                | Mouse  |
| Clonality           | Monoclonal   |
| Clone               | VIV-KM1  |
| Isotype             | IgG1   |
| Target Name         | NCR1   |
| Species             | Pig  |
| Immunogen           | Fusion protein consisting of the extracellular region of porcine NCR1.   |
| Conjugation         | Un-conjugated  |
| Alternate Names     | CD antigen CD335; Natural killer cell p46-related protein; Lymphocyte antigen 94 homolog; Natural cytotoxicity triggering receptor 1; hNKp46; NKP46; NKp46; NK cell-activating receptor; LY94; CD335; NK-p46   |

### Application Instructions

| Application table | Application   | Dilution        |
|-------------------|---|-----------------|
|                   | FACS  | 1:50 - 1:200    |
|                   | ICC/IF  | Assay-dependent |
| Application Note  | FACS: Use 10 µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100 µl.<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |

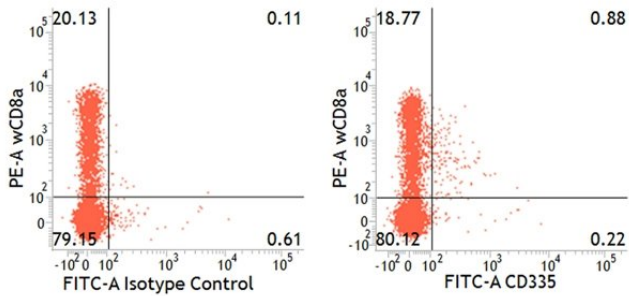
## Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Purification with Protein A.   |
| Buffer              | PBS and 0.09% Sodium azide.  |
| Preservative        | 0.09% Sodium azide   |
| Concentration       | 1 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

|                |  |
|----------------|--|
| Gene Symbol    | NCR1   |
| Gene Full Name | natural cytotoxicity triggering receptor 1   |
| Function       | Cytotoxicity-activating receptor that may contribute to the increased efficiency of activated natural killer (NK) cells to mediate tumor cell lysis. [UniProt] |
| Calculated Mw  | 34 kDa   |
| PTM            | N-glycosylated.<br>O-glycosylated. [UniProt]   |

## Images



ARG23180 anti-NCR1 antibody [VIV-KM1] FACS image

Flow Cytometry: Dual staining of Pig peripheral blood lymphocytes with ARG23180 anti-NCR1 antibody [VIV-KM1] detected with Goat anti Mouse IgG (H/L) (FITC), and Mouse anti-Pig wCD8a (RPE).