

# anti-human CD127

## Monoclonal Antibody A019D5 to CD127 (Human)

Cat-No: **21811271**

100 µg in 100 µl

**Clone:** A019D5

**Specificity:** The mouse monoclonal antibody A019D5 reacts with CD127 antigen.

**Isotype subclass:** Mouse IgG1kappa

**Form:** The antibody was purified by protein G affinity chromatography

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS with 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:** Flow Cytometry,

**Background:** CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor  $\alpha$  chain or IL-7R $\alpha$ . It forms a heterodimer with the common  $\gamma$  chain ( $\gamma$ c or CD132) which is shared with the receptors for IL-2, IL-4, IL-9, IL-13, IL-15, and IL-21. CD127 is expressed on immature B cells through early pre-B stage cells, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be a useful marker for identifying memory and effector T cells. Studies have shown that CD127 expression is down-modulated on Treg cells. It can be used as a marker for differentiation of Treg and conventional T cells. The ligation of IL-7 with its receptor is important for stimulation of mature and immature T cells as well as immature B cell proliferation and development.

### References:

- \* Sudo T, et al. 1993. P. Natl. Acad. Sci. USA 90:9125
- \* He YW and Malek TR. 1998. Crit. Rev. Immunol. 18:503.
- \* Huster KM, et al. 2004. P. Natl. Acad. Sci. USA 101:5610.
- \* Pillai M, et al. 2004. Leukemia Lymphoma 45:2403.
- \* Morrissey PJ, et al. 1989. J. Exp. Med. 169:707
- \* Liu W, et al. 2006. J. Exp. Med. 203:1701

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)