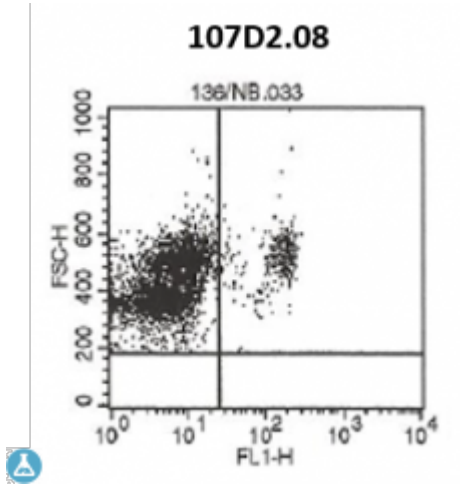


## Anti-IL3RA antibody (Alexa-fluor 647)



### Description

IL3 exerts its biologic activity through its interaction with a cell surface receptor that consists of two subunits. The  $\alpha$  subunit (CD123) specifically binds IL3, whereas the  $\beta$  subunit is required for signaling and is common to the GM-CSFR and IL5-R. 107D2.08 and 106C2.02 mAbs were obtained after mouse immunization with sorted human tonsillar PDC. Both clones strongly stain PDCs and basophils, weakly stain monocytes, CD34+ derived DCs and CD11c+ DC, while no staining is observed on T, B, NK cells as well as on mono-derived DCs. Staining with 107D2.08 and 106C2.02 mAbs are maintained on sorted PDC cultured in the presence of IL3 and CD40L, but lost when IL3 alone is added to the culture. The recognition of the IL3Ra chain by 107D2.08 and 106C2.02 was confirmed by transfection studies. 107D2.08 appeared to be the most appropriate clone for in situ studies. 107D2.08 allowed the first observation of IL3Ra+ cells in breast tumor microenvironment

|                     |   |
|---------------------|---|
| <b>Model</b>        | STJ170011                               |
| <b>Host</b>         | Mouse                                   |
| <b>Reactivity</b>   |   |
| <b>Applications</b> |   |
| <b>Immunogen</b>    | sorted human tonsillar pDC              |
| <b>Gene ID</b>      | <a href="#">3563</a>                    |
| <b>Gene Symbol</b>  | <a href="#">IL3RA</a>                   |
| <b>Purification</b> | QMA Hyper D ion exchange chromatography |
| <b>Note</b>         | For Research Use Only (RUO).            |

|                              |  |
|------------------------------|--|
| <b>Protein Name</b>          | Interleukin-3 receptor subunit alpha IL-3 receptor subunit alpha IL-3R subunit alpha IL-3R-alpha IL-3RA CD antigen CD123 |
| <b>Molecular Weight</b>      | 43.33 kDa  |
| <b>Clonality</b>             | Monoclonal   |
| <b>Conjugation</b>           | Alexa-fluor 647  |
| <b>Formulation</b>           | PBS 50% glycerol   |
| <b>Concentration</b>         | 0.5 mg/ml  |
| <b>Storage Instruction</b>   | Store at -20°C, and avoid repeat freeze-thaw cycles.   |
| <b>Database Links</b>        | <a href="#">HGNC:6012OMIM:308385Reactome:R-HSA-114604</a>  |
| <b>Alternative Names</b>     | Interleukin-3 receptor subunit alpha IL-3 receptor subunit alpha IL-3R subunit alpha IL-3R-alpha IL-3RA CD antigen CD123 |
| <b>Function</b>              | This is a receptor for interleukin-3.  |
| <b>Cellular Localization</b> | Membrane   |

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