DENDRITICS

Monoclonal Anti-human IL3-Rα/CD123

Product reference: DDX0300

Description:

IL-3 exerts its biologic activity (eg survival and proliferation of multipotent hematopoietic cells, development of pDCs) through its interaction with a cell surface receptor that consists of two subunits. The α subunit (CD123) specifically binds IL-3, whereas the β subunit is required for signaling and is common to the GMCSF-R and IL-5-R. Interplay of α and β chains leads to the formation of a high-affinity receptor complex able to transduce proliferative, apoptotic and differentiative signals. Plasmacytoid DCs express IL3-R and differentiate into functional DCs with IL-3. The leukemic pDC counterpart also expresses high levels of IL3-Rα. Upon IL-3 treatment *in vitro*, leukemic cells become inducers of T-cell proliferation, as reported for normal pDCs. The role of IL3-R in oncogenesis has been explored in several animal models. Over expression of the IL3-R □ chain may represent one of the mechanisms contributing to the development of a highly malignant leukemic phenotype. *Treilleux I et al., 2004, Clinical Cancer Research, 10: 7466-7474,*

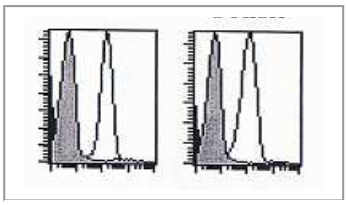
Clone: **107D2.08**
Species / Isotype: mouse, IgG1
Specificity: human CD123 (epitope in extracellular domain)
Immunogen: sorted-human blood pDCs
Species cross- reactivity: nd
Purification: QMA Hyper D ion-exchange chromatography
Formulation/size: **Purified**: 100 µg in 200µl Tris-NaCl pH 8
Coupled: 100 µg in 200µl PBS 50% glycerol

Available formats:

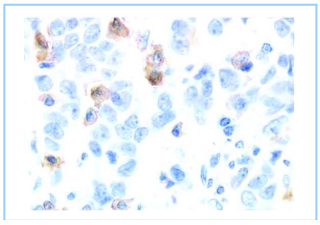
Reference	Format	Application tested
DDX0300	purified	IHC, Bouin paraffin, IP, flow cytometry
DDX0300A488	Alexa-fluor®488	Surface Flow Cytometry, IF
DDX0300A546	Alexa- fluor®546	IF
DDX0300A647	Alexa- fluor®647	On request
DDX0300B	biotin	On request

Applications tested This monoclonal antibody has been tested:

blood *tonsil*



IL3-Rα FACS surface expression on human pDCs



Bouin Parrafin section o human invasive beast tumor. Presence of IL3-Rα+ pDCs revealed by HRP

Other application: ImmunoHistoChemistry: Frozen section on tonsil
Usage recommendation: *This monoclonal antibody may be used between 5-20 µg/ml
*Optimal dilution should be determined by each laboratory for each application
*Coupled antibody: to maintain RT before using

Aliquot storage conditions **-20°C. KEEP CONTENTS STERILE: no preservative. Purified antibodies: avoid repeated freeze/thaw cycles. Coupled antibodies: glycerol protects from freezing.**

Not for use in Humans. For research purpose only

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