DENDRITICS

Monoclonal Anti-human IL3-Rα/CD123

Product reference: DDX0300-DDX0301

Description:

IL3 exerts its biologic activity through its interaction with a cell surface receptor that consists of two subunits. The α subunit (CD123) specifically binds IL3, whereas the β subunit is required for signaling and is common to the GMCSF-R 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 IL3Rα 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 $IL3R\alpha^+$ cells in breast tumor microenvironment.

(Bendriss-Vermare N thesis, 2001;Treilleux I et al, 2004 ; Clin. Canc. Res., 10: 7466-7474)

Species: mouse

Specificity: human CD123 (IL3Rα)

Immunogen: sorted human tonsillar pDC

Species cross-reactivity: see table below

Purification: QMA Hyper D ion exchange chromatography

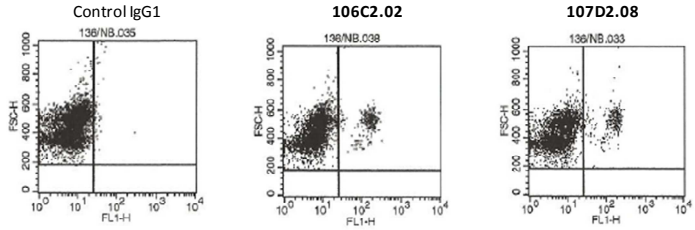
Formulation/size: **Purified**: 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8
Coupled: 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol

Available formats:

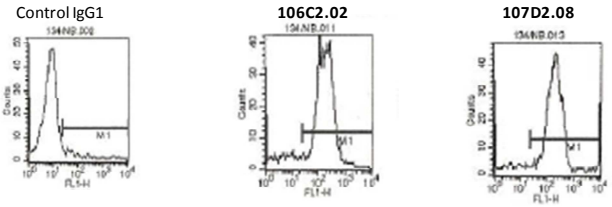
Reference		Format	Clone	Isotype	Cross-reactivity	Application tested
50µg	100µg					
DDX0300P-50	DDX0300P-100	Purified	107D2.08	IgG1	Dog	IHC, Bouin paraffin, IP, Surface and Intracyto Flow cytometry
DDX0300A488-50	DDX0300A488-100	AlexaFluor ®488				Surface and Intracyto Flow cytometry, IF
DDX0300A546-50	DDX0300A546-100	AlexaFluor ®546				IF
DDX0300A647-50	DDX0300A647-100	AlexaFluor ®647				Surface and Intracyto Flow cytometry
DDX0300B-50	DDX0300B-100	Biotin				IHC, IP
DDX0301P-50	DDX0301P-100	Purified	106C2.02	IgG1	Pig	IHC, Surface Flow cytometry
DDX0301A488-50	DDX0301A488-100	AlexaFluor ®488				Surface Flow cytometry, IF
DDX0301A546-50	DDX0301A546-100	AlexaFluor ®546				IF
DDX0301A647-50	DDX0301A647-100	AlexaFluor ®647				Surface Flow cytometry
DDX0301B-50	DDX0301B-100	Biotin				IHC, Surface Flow cytometry

Other clones available on request

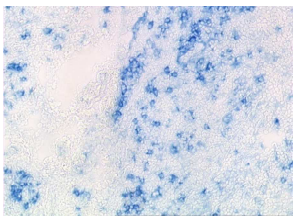
Application tested: Flow cytometry,IHC



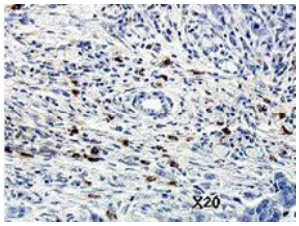
Human PBMC enriched in monocytes and dendritic cells (Percoll gradient) and analyzed by surface flow cytometry



Facs staining of CD11c⁻ sorted tonsillar cells



*IHC staining of frozen human tonsil section with **106C2.02** (Fast Blue)*



*IHC staining of Bouin Paraffin section of human invasive breast tumor with **107D2.08** (DAB brown)*

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 use.

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

Not for use in Humans. For research purpose only

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