

## OriGene Technologies, Inc.

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## Product datasheet for DDX0390B-100

Bst2 (Plasmacytoid Dendritic Cells / pDCs) Rat Monoclonal Antibody [Clone ID: 120G8.04]

**Product data:** 

**Product Type:** Primary Antibodies

Clone Name: 120G8.04 Applications: FC, IHC

**Recommend Dilution:** DDX0390P-50 / DDX0390P-100 Purified: FACS surface, ImmunoHistoChemistry frozen

sections, In vivo depletion.

DDX0390A488-50 / DDX0390A488-100 Alexa-fluor®488: FACS surface,

ImmunoFluorescence..

<u>DDX0390A546-50 / DDX0390A546-100</u> Alexa-fluor®546: ImmunoFluorescence. <u>DDX0390A647-50 / DDX0390A647-100</u> Alexa-fluor®647: Flow Cytometry.

DDX0390B-50 / DDX0390B-100 Biotin: FACS surface, ImmunoHistoChemistry frozen

sections.

<u>DDX0390-HD01</u> 1 mg Purified: *In vivo* Depletion. <u>DDX0390-HD05</u> 5 mg Purified: *In vivo* Depletion. <u>DDX0390-HD10</u> 10 mg Purified: *In vivo* Depletion.

**Usage recommendation:** 

This monoclonal antibody may be used between at 1-10 µg/ml.

For pDCs in vivo depletion in Balb /c mice, mAb 120G8 was used between 50-200 µg

/ injection.

Optimal dilution should be determined by each laboratory for each application.

**Reactivity:** Mouse **Host:** Rat

**Isotype:** lgG1

Clonality: Monoclonal

Immunogen: Mouse plasmatocytoid DCs (pDCs)

**Specificity:** Mouse pDCs/IFN producing cells (IPC) (extracellular domain).

Species cross-reactivity: nd

Formulation: Purified:  $100 \mu g$  in  $200 \mu l$  /  $50 \mu g$  in  $100 \mu l$  / 1 mg in 2ml Tris-NaCl pH8.

**Coupled:** 100 μg in 200μl / 50 μg in 100 μl PBS 50% glycerol.

Label: Biotin





## Bst2 (Plasmacytoid Dendritic Cells / pDCs) Rat Monoclonal Antibody [Clone ID: 120G8.04] – DDX0390B-100

**Concentration:** 0.5 mg/ml

Conjugation: Biotin

**Gene Name:** bone marrow stromal cell antigen 2

Database Link: Entrez Gene 69550 Mouse

**Background:** We generated rat monoclonal antibody (mAb) that recognizes mouse plasmacytoid dendritic

cells (pDCs). The target molecule was found to be BST2 (bone marrow stromal cell antigen 2).

This antibody, named 120G8, stains a small subset of CD11clow spleen cells with high specificity. This population produces high amounts of IFNα upon *in vitro* viral stimulation. Both *ex vivo*- and *in vitro*-derived 120G8+ cells display a phenotype identical with that of mouse pDCs (B220highLy6ChighGr1lowCD11b-CD11clow). Mice treated with 120G8 mAb are depleted of B220highLy6ChighCD11clow cells and have a much reduced ability to produce IFN

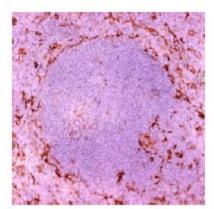
in response to in vivo CpG stimulation. mAb 120G8 stains all and only

B220highLy6ChighCD11clow pDC in all lymphoid organs. Immunohistochemical studies performed with this mAb indicate that pDC are located in the T cell area of spleen, lymph nodes, and Peyer's patches. Using 120G8 mAb in immunofluorescence studies demonstrates mouse strain- and organ-specific differences in the frequency of pDCs and other DC subsets (Asselin-Paturel C et al, 2003; J. Immunol., 172:6466; Blasius Al, 2006, J. Immunol., 177:3260;

Goubier A et Al, 2008, Immunity, 29:464-475).

**Synonyms:** Bone marrow stromal antigen 2, BST-2, Tetherin, HM1.24 antigen

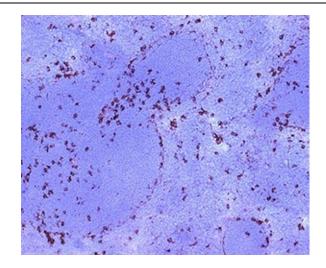
## **Product images:**



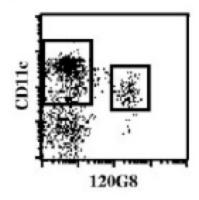


IHC staining of murine spleen cryosections

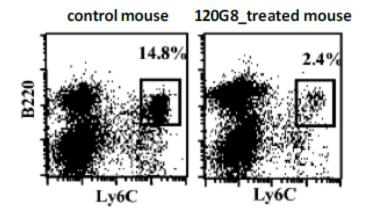




IHC staining of mouse spleen frozen section with clone 120G8 (DX0390)



Facs sorting of mouse PDCs (120G8/CD11c)



In vivo depletion of mouse PDCs (gated on CD11c+CD3- cells)