

## Purified anti-mouse CD317 (BST2, PDCA-1) Antibody

<b>Catalog# / Size</b>	127102 / 100 µg
<b>Clone</b>	129C1
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	BST2, tetherin, HM1.2 antigen, bone marrow stromal antigen 2, PDCA-1
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	CD317, known as BST2, tetherin, HM1.2 antigen, bone marrow stromal antigen 2, or PDCA-1, is type II transmembrane glycoprotein with a molecular mass of 29-33 kD. It is predominantly expressed on Type I IFN-producing cells (IPCs) in naïve mice, but is up-regulated on most cell types following stimulation with type I IFNs and IFN-gamma. It is highly expressed on terminally differentiated normal plasmacytoid dendritic cells and some tumor cells, such as multiple myeloma, renal cell carcinoma, and melanoma cells. BST2 is a recently identified as IFN-induced cellular response factor that blocks release of HIV-1 and other retroviruses from infected cells. BST2 has been found to be the natural ligand of ILT7 in human model.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse plasmacytoid dendritic cells (DCs)
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">IP - Reported in the literature, not verified in house</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per 10 <sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application References</b>	<ol style="list-style-type: none"><li>Blasius AL, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:3260</li><li>Cocka LJ, <i>et al.</i> 2012. <i>PLoS Pathog.</i> 8:e1002931. <a href="#">PubMed</a>.</li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>Cocka L, Bates P 2012. <i>PLoS One.</i> 8:e1002931. <a href="#">PubMed</a></li><li>Abboud G, <i>et al.</i> 2018. <i>Front Immunol.</i> 9:1973. <a href="#">PubMed</a></li><li>Prabakaran T, <i>et al.</i> 2021. <i>EBioMedicine.</i> 66:103314. <a href="#">PubMed</a></li><li>Olety B, <i>et al.</i> 2021. <i>Sci Adv.</i> 7:eabj7398. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_1953279 (BioLegend Cat. No. 127102)

### Antigen Details

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<b>Structure</b>	Type II transmembrane glycoprotein with a molecular mass of 29-33 kD.
<b>Distribution</b>	Expressed on type I IFN-producing cells, plasmacytoid dendritic cells, and neoplastic B cells, such

as multiple myeloma.

<b>Function</b>	Recently identified as antiviral protein that blocks the release of nascent retrovirus or other particles from infected cells.
<b>Cell Type</b>	Dendritic cells, B cells
<b>Biology Area</b>	Immunology, Innate Immunity, Costimulatory Molecules
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Douglas JL. <i>et al.</i> 2009. <i>J Virol.</i> 83(16):7931 2. Cao W <i>et al.</i> 2009. <i>J. Exp. Med.</i> 206(7):1603 3. Neil SJ. <i>et al.</i> 2008. <i>Nature</i> 451:425
<b>Gene ID</b>	<a href="#">69550</a>

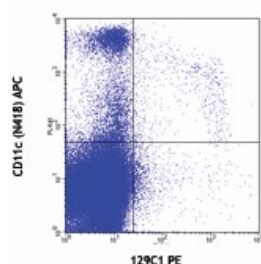
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

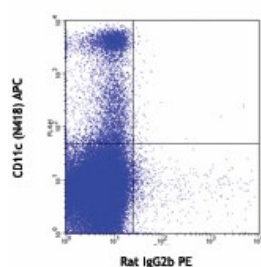
## Other Formats

Purified anti-mouse CD317 (BST2, PDCA-1), PE anti-mouse CD317 (BST2, PDCA-1), Pacific Blue™ anti-mouse CD317 (BST2, PDCA-1), Alexa Fluor® 647 anti-mouse CD317 (BST2, PDCA-1)

## Product Data



SJL mouse splenocytes double stained with 129C1 PE and CD11c (N418) APC



SJL mouse splenocytes double stained with rat IgG2b isotype control PE and CD11c (N418) APC

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