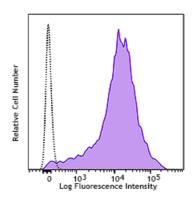
## SONY

## **Product Data Sheet**

## Brilliant Violet 750<sup>™</sup> anti-human/mouse/rat CD278 (ICOS)

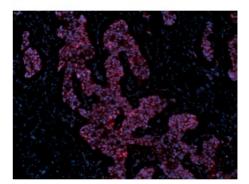
Catalog # / Size:	2167790 / 100 tests 2167785 / 25 tests
Clone:	C398.4A
lsotype:	Hamster IgG
Immunogen:	Mouse T cell clone D10.G4.1
Reactivity:	Human, Mouse, Non-human primate, Other, Rat
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750 <sup>™</sup> under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Workshop Number:	IV N231
<b>Concentration:</b>	Lot-specific



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD278 (ICOS) (clone C398.4A) Brilliant Violet 750<sup>™</sup> (filled histogram), or mouse IgG1, κ Brilliant Violet 750<sup>™</sup> isotype control (open histogram).

## **Applications:**

Applications: Flow Cytometry



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5  $\mu$ g/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

Recommended	
Usage:	

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per million cells in 100  $\mu$ L staining volume or 5  $\mu$ L per 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750<sup>™</sup> excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 750<sup>™</sup> is a trademark of Sirigen Group Ltd.

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ApplicationThe C398.4A antibody is useful for<br/>flow cytometric analysis and is able<br/>to costimulate T cell activation and<br/>proliferation. Additional reported<br/>applications (for the relevant<br/>formats) include:<br/>immunoprecipitation1 and in<br/>vitro costimulation of T cell<br/>activation1,3,4.

Application	1. Redoglia V, et al. 1996. Eur. J. Immunol. 26:2781. (FC IP Costim)
<b>References:</b>	2. Yagi J, et al. 2003. J. Immunol. 171:783. (FC)
	3. Arimura Y, et al. 2002. Int. Immunol. 14:555. (Costim)
	4. Arimura Y, et al. 2004. J. Biol. Chem. 279:11408. (Costim)

**Description:** ICOS, also known as inducible costimulatory molecule and H4, is a 47-57 kD protein. This protein is homologous to the CD28/CTLA-4 proteins. ICOS is expressed on activated T cells and a subset of thymocytes. It is able to costimulate T cells proliferation. In addition, ICOS is involved in humoral immune responses (B cell germinal center formation). The ICOS ligand is B7h/B7RP-1 or B7-H2. ICOS stimulation has been shown to potentiate TCR-mediated IL-4 and IL-10 production and has been proposed to play a role in Th2 cell development.

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Antigen	1. Redoglia V, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:2781.
<b>References:</b>	2. Hutloff A, et al. 1999. Nature 397:263.
	3. Buonfiglio D, et al. 2000. Eur. J. Immunol. 30:3463.

4. Coyle ÅJ, et al. 2000. Immunity 13:95.