

# Mouse Anti-Human Colorectal Carcinoma/CD3 (Bispecific) Monoclonal Antibody Datasheet

## Product Name: mAb anti-Human Colorectal Carcinoma/CD3 Clone No.: BS-1

## Catalogue No.: MO-T40035

# Quantity: 0.5 mg/vial

Description:	This is a <b>bispecific</b> antibody produced by	Host / Isotype:	Mouse, IgG1/IgG2a
	fusion of two hybridoma cell lines. The human colorectal carcinoma antigen	Formulation:	Lyophilized in 0.01M PBS, pH 7.0
	(CRC) mAb secreting cell line was transfected by mpSV2gpt. The human CD3 mAb secreting cell line (JXT3) was	Reconstitution:	Double distilled water is recommended to reconstitute the antibody
	transfected by mpSV2neo. The somatic fusion between CRC and JXT3 cells	Storage:	Store at -20°C
	produced quadroma CRCgpt/CD3neo,	Research	Immunology, T-cell receptor. Oncology
	which were selected and cloned in media containing both Mycophenolic	Area:	Colorectal carcinoma is the cancer
	acid and Geneticin. Quadromas showing both murine IgG1 and IgG2a was subcloned for bispecific antibody CRC/CD3 production.	Sacky Carro	developed in the colon or rectum of the digestive system. In developed countries, it is the most common cancer
Purification:	Protein G affinity purified		in aging population. Genetic deposition and a less active life style contribute to the development of the cancer
Target Protein:	Human colorectal carcinoma related protein and cluster of differentiation 3 (CD3) on T-cells.		Molecular pathological study showed that altered Wnt-APC-β-catenim signaling pathway, mutated p53, and
Immunogen:	The original CRC mAb (Y94) used human colorectal carcinoma as immunogen. The original CD3 mAb (JXT3) used human peripheral T lymphocytes as immunogen		deactivated TGF- $\beta$ and DCC (Deleted in Colon Cancer) are involved with the pathogenesis. The cancer is currently screened with a fecal occult blood test in people over 50 years old and the
Fusion Myeloma:	No information		malignancy is confirmed by tumor biopsy. The search for specific biomarker for non-invasive test is still
Specificity:	This antibody recognizes human colorectal carcinoma related protein and		ongoing.
	CD3 molecule on T cells.		CD3 exists on the cell surface of all T-cell types. It is used for differentiating T-
Species Reactivity:	Human, others not tested		cells from other leukocytes such as B cells and natural killer cells. CD3 is the accessory molecule in the T cell receptor



Page 1 of 2 page(s)

To place order, please contact us by phone, fax or by email: <u>info@anogen.ca</u>, or with our secure online store: <u>www.anogen.net</u>



complex. In the presence of CD3 and ζchain, T-cell receptor binds to antigen presented by MHC and transfers signal for T-cell activation.

The hybrid bi-specific antibody binds to CD3 and colorectal carcinoma related antigen at its two different Fabs. Theoretically, the bi-specific antibody brings the target cancer antigen near Tcells and could enhance T-cell mediated immunity to cancer. However, if the binding to CD3 disrupts the CD3's accessory function, T-cell immunity suppression could be resulted.

**Application:** 

**ELISA:** The bi-specific antibody has been shown to detect the presence of the tumor-associated antigen in the serum of patients with colorectal carcinoma, and reacted with mucin-like oncofetal pancarcinoma antigen, glycoprotein TAG-72.

#### Fluorescence flow cytometry:



Above is the histogram of Jurkat cells stained with mouse anti-Human

colorectal carcinoma/CD3 (bispecific) mAb (10μg/ml) and fluorescence labelled secondary antibody. Black line represents the histogram of control antibody, mouse anti-TB 38Kd antigen mAb clone B12F8 (Cat. No. MO-I40021D).

**References:** 

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures. Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.

Page 2 of 2 page(s)

To place order, please contact us by phone, fax or by email: <u>info@anogen.ca</u>, or with our secure online store: <u>www.anogen.net</u> S7.5 (02)