

Technical Data Sheet

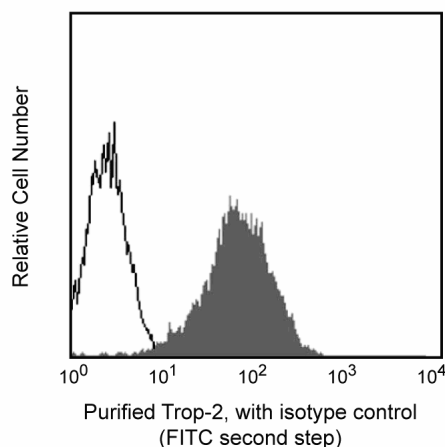
Purified Mouse Anti-Human Trop-2

Product Information

Material Number:	551317
Alternate Name:	GA733-1
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	162-46
Immunogen:	Human BeWo (choriocarcinoma) Cell Line
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Trop-2/GA733-1 is a cell surface glycoprotein that was originally identified on human trophoblast and choriocarcinoma cell lines and has been shown to be expressed in most human carcinomas. Trop-2 has been cloned and shown to encode a type-1 transmembrane protein with a single transmembrane domain. Furthermore, research has shown Trop-2 to be involved in the transduction of an intracellular calcium signal, although the exact physiological mechanism has yet to be elucidated.



Flow cytometric analysis of Trop-2. MCF7 cells (Human breast adenocarcinoma; ATCC HTB-22) were incubated with 0.25 μ g of the Purified Mouse Anti-Human Trop-2 antibody (clone 162-46; shaded) or with a mouse IgG1 isotype control (Cat. No. 555746; unshaded) in BD Pharmingen™ Stain Buffer (Cat. No. 554656) for 1 hr on ice. Cells were washed twice in Stain Buffer and incubated with 1 μ g of a FITC Goat Anti-Mouse Ig secondary antibody (Cat. No. 554001) in Stain Buffer for 1 hr on ice. Cells were washed twice and analyzed by flow cytometry.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



References

- Bobos M, Kotoula V, Kaloutsi V, Karayannopoulou G, Papadimitriou CS, Kostopoulos I. Aberrant CCND1 copies and cyclin D1 mRNA expression do not result in the production of functional cyclin D1 protein in anaplastic large cell lymphoma. *Histol Histopathol.* 2009; 24(8):1035-1048. (Biology: Immunohistochemistry)
- Fornaro M, Dell'Arciprete R, Stella M, et al. Cloning of the gene encoding Trop-2, a cell-surface glycoprotein expressed by human carcinomas. *Int J Cancer.* 1995; 62(5):610-618. (Biology)
- Lipinski M, Parks DR, Rouse RV, Herzenberg LA. Human trophoblast cell-surface antigens defined by monoclonal antibodies. *Proc Natl Acad Sci U S A.* 1981; 78(8):5147-5150. (Immunogen)
- Ripani E, Sacchetti A, Corda D, Alberti S. Human Trop-2 is a tumor-associated calcium signal transducer. *Int J Cancer.* 1998; 76(5):671-676. (Biology)