

Technical Data Sheet

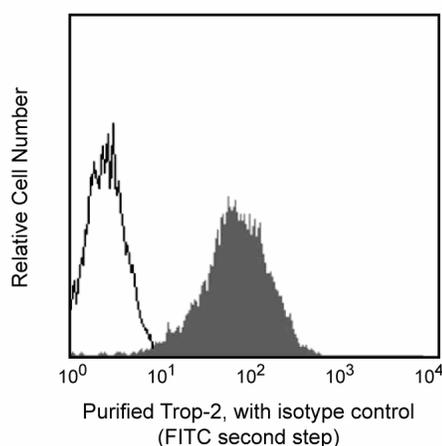
Purified Mouse Anti-Human Trop-2

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

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 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.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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References

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