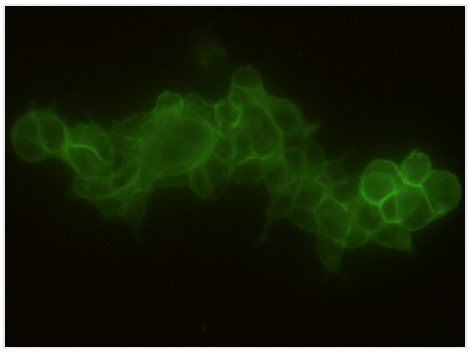
TACSTD2 Antibody – Mouse Monoclonal

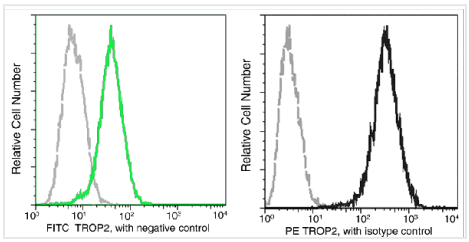
PRODUCT OVERVIEW

Product Name	TROP2 (TACSTD2), Monoclonal Antibody
Full Product Name	Anti-TROP2 Antibody (FITC), Mouse Monoclonal
Product Gene Name	anti-TACSTD2 antibody
Product Synonym Names	TROP2/TACSTD2 Antibody (FITC), Mouse MAb; tumor-associated calcium signal transducer 2; Anti-EGP-1 Antibody; Anti-EGP1 Antibody; Anti-GA733-1 Antibody; Anti-GA7331 Antibody; Anti-GP50 Antibody; Anti-M1S1 Antibody; Anti-TACD2 Antibody; Anti-TROP-2 Antibody; Anti-TROP2 Antibody
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	01
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; Aqueous solution containing 0.5% BSA and 0.09% sodium azide
Purity/Purification	Protein A
Concentration	10ul/Test, 0.1mg/ml (lot specific)
Specificity	Human TROP2/TACSTD2
Preparation and Storage	This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Molecular Weight	35,709 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (59041095..59043166, complement). Location: 1p32
OMIM	137290
3D Structure	ModBase 3D Structure for P09758
Immunogen	Recombinant Human TROP2 protein
Conjugation	FITC
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human TROP2/TACSTD2 (rh TROP2/TACSTD2) and conjugated with FITC under optimum conditions, the unreacted FITC was removed.
Product Categories/Family for anti-TACSTD2 antibody	Cancer Drug Targets
Applications Tested/Suitable for anti-TACSTD2 antibody	Flow Cytometry (FC/FACS/FCM), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-TACSTD2 antibody	ICC/IF: 10-25ug/mL

Related Product Information for anti-TACSTD2 antibody	TROP-2, also referred to as tumor-associated calcium signal transducer 2 (TACSTD2), GA733-1 or M1S1, is a cell surface glycoprotein highly expressed in a wide variety of epithelial cancers. In contrast, there is little or no expression of Trop-2 in adult somatic tissue. Because it is a cell surface protein that is selectively expressed in tumor cells, Trop-2 is a potential therapeutic target. The cytoplasmic tail of Trop-2 possesses potential serine and tyrosine phosphorylation sites and a phosphatidyl-inositol binding consensus sequence. Trop-2 transduces an intracellular calcium signal, which are consistent with the hypothesis that it acts as a cell surface receptor and support a search for a physiological ligand. TROP2 encoding by an intronless gene was originally defined by the monoclonal antibody GA733, and is a member of a family of at least two type I membrane proteins. The other known member is GA733-2, also called EpCAM and TROP1. It has been suggested by studies that the GA733-1 gene was formed by the retroposition of the GA733-2 gene via an mRNA intermediate.
Product References and Citations for anti-TACSTD2 antibody	Ripani E, et al. (1998) Human Trop-2 is a tumor-associated calcium signal transducer. Int J Cancer. 76(5): 671-6.Wang J, et al. (2008) Identification of Trop-2 as an oncogene and an attractive therapeutic target in colon cancers. Mol Cancer Ther. 7(2): 280-5.
Other Notes	Small volumes of anti-TACSTD2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TACSTD2 purchase	MBS8102768 is an antibody targeting TACSTD2. Also known as Anti-TROP2 Antibody (FITC), Mouse Monoclonal. Reactive in Human. Host: Mouse.



Immunofluorescence (IF) of anti-TACSTD2 antibody
Immunofluorescence staining of Human TROP2 in MCF7 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Mouse anti-Human TROP2 monoclonal antibody (FITC-conjugated, 10 ug/ml) at 37 degree C 1 hour. Positive staining was localized to plasma membrane.



Flow Cytometry (FC/FACS) of anti-TACSTD2 antibody
Flow cytometric analysis of anti-human TROP2 on MCF-7 cells. MCF-7 cells were detached using 1X trypsin, washed, then stained with FITC Mouse anti-human TROP2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TACSTD2. It may not necessarily be applicable to this product.

NCBI GI #	166795236
NCBI GeneID	4070
NCBI Accession #	NP_002344.2
UniProt Primary Accession #	P09758
UniProt Secondary Accession #	Q15658; Q6FG48; Q7Z7Q4; Q96QD2
UniProt Related Accession #	P09758
GenBank Nucleotide #	NM_002353.2
NCBI Official Full Name	tumor-associated calcium signal transducer 2
NCBI Official Synonym Full Names	tumor-associated calcium signal transducer 2
NCBI Official Symbol	TACSTD2
NCBI Official Synonym Symbols	EGP1; GP50; M1S1; EGP-1; TROP2; GA7331; GA733-1
UniProt Protein Name	Tumor-associated calcium signal transducer 2

UniProt Synonym Protein Names	Cell surface glycoprotein Trop-2; Membrane component chromosome 1 surface marker 1; Pancreatic carcinoma marker protein GA733-1
Protein Family	Tumor-associated calcium signal transducer
UniProt Gene Name	TACSTD2
UniProt Synonym Gene Names	GA733-1; M1S1; TROP2
UniProt Entry Name	TACD2_HUMAN
NCBI Protein Information	tumor-associated calcium signal transducer 2; epithelial glycoprotein-1; cell surface glycoprotein TROP2; cell surface glycoprotein Trop-2; pancreatic carcinoma marker protein GA7331; pancreatic carcinoma marker protein GA733-1; gastrointestinal tumor-ass
NCBI Summary for TACSTD2	This intronless gene encodes a carcinoma-associated antigen. This antigen is a cell surface receptor that transduces calcium signals. Mutations of this gene have been associated with gelatinous drop-like corneal dystrophy.[provided by RefSeq, Dec 2009]
UniProt Comments for TACSTD2	TACSTD2: May function as a growth factor receptor. Defects in TACSTD2 are the cause of gelatinous drop-like corneal dystrophy (GDLD); also known as lattice corneal dystrophy type III. GDLD is an autosomal recessive disorder characterized by grayish corneal amyloid deposits that cause severe visual impairment. Belongs to the EPCAM family. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 1p32 Cellular Component: extracellular space; membrane; integral to plasma membrane; basal plasma membrane; nucleus; cytosol; lateral plasma membrane Molecular Function: protein binding; receptor activity Biological Process: cell proliferation; cell surface receptor linked signal transduction; negative regulation of stress fiber formation; visual perception; regulation of epithelial cell proliferation Disease: Corneal Dystrophy, Gelatinous Drop-like
Research Articles on TACSTD2	**1.** study characterized the expression of TACSTD2 in invasive ductal breast cancer(IDC) and adjacent non-malignant tissues; studies demonstrated that the high expression of TACSTD2 correlates with a poor prognosis in IDC
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