

**Mouse Anti-TROP2/TACD1 [TACSTD2/2153]: MC0386, MC0386RTU7**

**Intended Use:** For Research Use Only

**Description:** TROP2, also known as tumor-associated calcium signal transducer 2 (TACSTD2), pancreatic carcinoma marker protein GA733-1, membrane component chromosome 1, surface marker 1 (M1S1) or epithelial glycoprotein-1 (EGP-1), is a cell surface glycoprotein receptor. It is a single pass type I membrane protein containing one thyroglobulin type-1 domain, an epidermal growth factor like repeat, a phosphatidylinositol binding site and tyrosine phosphorylation sites near the C-terminus. TROP-2 plays a role in transducing intracellular calcium signals. It is expressed in trophoblast cells, cornea and multistratified epithelia. It is also highly expressed in several types of tumors and is involved in regulating the growth of carcinoma cells. Mutations in the gene encoding TROP2 can result in gelatinous drop-like corneal dystrophy (GDLD) also referred to as lattice corneal dystrophy type III, an autosomal recessive disorder that causes severe visual impairment.

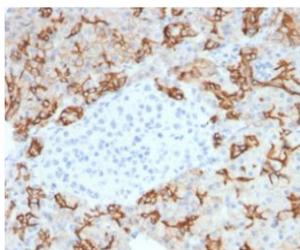
**Specifications**

Clone: TACSTD2/2153  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human  
 Immunogen: Recombinant fragment of human TROP2 protein around aa 31-274  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
TROP2/TACD1 Concentrated	MC0386	1 ml
TROP2/TACD1 Prediluted	MC0386RTU7	7 ml

**IHC Procedure**

Positive Control Tissue: Breast or colon carcinoma, HT29 cells  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreatic carcinoma stained with anti-TROP2 using DAB

**References:**

- Overexpression of TROP2 promotes proliferation and invasion of ovarian cancer cells. Wu B. et al. Exp Ther Med. Sep;14(3):1947-1952, 2017.
- Interactome analysis reveals ezrin can adopt multiple conformational states. Viswanatha R, et al. J Biol Chem 288:35437-51, 2013.
- Human trophoblast cell-surface antigens defined by monoclonal antibodies. Lipinski M, et al. Proc Natl Acad Sci U S A 78:5147-50, 1981.

Doc. 100-MC0386  
Rev. A