

Mouse Anti-TROP2/TACD1 [B-9]: MC0600, MC0600RTU7

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 (GDL) also referred to as lattice corneal dystrophy type III, an autosomal recessive disorder that causes severe visual impairment.

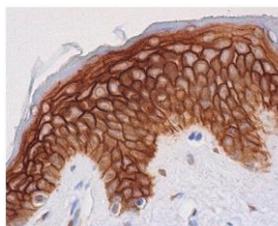
Specifications

Clone: B-9
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Immunogen: Amino acids 141-225 mapping within an internal region of human TROP2
 Localization: Membrane, some cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, ICC/IF, IP, WB
 Package:

Description	Catalog No.	Size
TROP2/TACD1 Concentrated	MC0600	1 ml
TROP2/TACD1 Prediluted	MC0600RTU7	7 ml

IHC Procedure

Positive Control Tissue: Skin, breast or cervical cancer, MCF7 and HCT 116 cells
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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 skin stained with anti-TROP2 using DAB (epidermal cells)

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.

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Rev. B