
Anti-Human Trop2 (EGP-1) Purified

Catalog Number: 14-6024

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human Trop2 (EGP-1)
Purified

 **Catalog Number:** 14-6024

Clone: MR54

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, contains stabilizer if necessary

Temperature Limitation: Store at 2-8°C.

 **Batch Code:** Refer to vial

 **Use By:** Refer to vial

Description

This MR54 monoclonal antibody reacts with human Trop-2, which is also known as Tumor-Associated Calcium Signal Transducer 2 (TACSTD2) and EGP-1. This type I transmembrane glycoprotein is expressed on trophoblast (syncytiotrophoblast and cytotrophoblast), epithelial, and most human carcinoma cells. Trop-2 plays a role in calcium-mediated signaling. Trop-2 has also been reported as an oncogene, with expression being correlated with tumorigenesis, metastasis, and anchorage-independent growth.

Applications Reported

This MR54 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, western blotting, immunohistochemical staining of formalin-fixed paraffin embedded (FFPE) tissue sections (IHC-P), ELISA, and immunocytochemistry (ICC).

Applications Tested

This MR54 antibody has been tested by flow cytometry and immunocytochemistry on MCF7 cells as well as by immunohistochemistry of formalin-fixed paraffin embedded tissue using either low or high pH antigen retrieval methods. Use of high pH antigen retrieval results in better staining intensity. This can be used at less than or equal to 5 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Cubas R, Zhang S, Li M, Chen C, Yao Q. Trop2 expression contributes to tumor pathogenesis by activating the ERK MAPK pathway. *Mol Cancer*. 2010 Sep 21;9:253.

Ripani E, Sacchetti A, Corda D, Alberti S. Human Trop-2 is a tumor-associated calcium signal transducer. *Int J Cancer*. 1998 May 29;76(5):671-6.

Stein R, Basu A, Goldenberg DM, Llyod KO, and Mattes MJ. Characterization of cluster 13: The epithelial/carcinoma antigen recognized by MAAb RS7. *Int. J. Cancer Suppl*. 1994. 8:98-102. (**MR54**, FC, WB, ELISA)

Related Products

00-4953 IHC/ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4955 IHC Antigen Retrieval Solution – Low pH (10X)
00-4956 IHC Antigen Retrieval Solution – High pH (10X)
00-4960 PermOUNT™ Mounting Medium
14-4724 Mouse IgG2a K Isotype Control Purified

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