

## Anti-Human Trop2 (EGP-1) Alexa Fluor<sup>®</sup> 488

Catalog Number: 53-6024

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

### Product Information

**Contents:** Anti-Human Trop2 (EGP-1) Alexa Fluor<sup>®</sup> 488  
**Catalog Number:** 53-6024  
**Clone:** MR54  
**Concentration:** 0.5 mg/mL  
**Host/Isotype:** Mouse IgG2a, kappa

REF



LOT



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.  
**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, immunohistochemical staining of formalin-fixed paraffin embedded (FFPE) tissue sections (IHC-P), and immunocytochemistry (ICC).

### Applications Tested

This MR54 antibody has been tested by flow cytometry and immunocytochemistry on MCF7 cells. This can be used at less than or equal to 10 µg/mL. For immunohistochemistry of formalin-fixed paraffin embedded tissue, either low or high pH antigen retrieval can be used, although high pH antigen retrieval results in better staining intensity. 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)  
00-4958 Fluoromount-G<sup>™</sup>  
53-4724 Mouse IgG2a K Isotype Control Alexa Fluor<sup>®</sup> 488

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