

Mouse anti-MFG-E8/Lactadherin/p47, clone MFG-06 (Monoclonal)

Clone no. MFG-06 MONOSAN

Product name Mouse anti-MFG-E8/Lactadherin/p47, clone MFG-06 (Monoclonal)

Host Mouse

Applications FC, IHC-fr, IHC-P, IF, WB

Species reactivity human, rat

Conjugate -

Immunogen milk fat globule membrane preparation derived from human breast cancer

cell line PMC42

lsotype lgG1-K

Clonality Monoclonal

Clone number MFG-06

Size 100 ug

Concentration 100 ug/ml

Format -

Storage buffer PBS with 0.02% sodium azide

Storage until expiry date 2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

Product datasheet MON9905



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Additional info

MFG-06 reacts with a glycoprotein of 40-45 kDa, known as Milk fat globule-EGF factor 8 protein (MFG-E8), lactadherin, p47 or milk fat globule 1 antigen. It is present on normal epithelial cells in various organs and considered a differentiation marker in carcinomas. It contains one EGF-like domain and 2 F5/8 type C domains. Functioning as a specific ligand for Integrin $\beta 5$ and Integrin $\beta 3$, MFG-E8 is thought to be involved in gamete interactions and cell attachment, possibly playing a role in fertilization and apoptosis. Additionally, MFG-E8 binds to rotavirus and inhibits its replication, thereby protecting the cell from viral infection. Overexpression of MFG-E8 is associated with breast cancer, suggesting that MFG-E8 may be related to tumorigenesis or progression. Among testicular carcinomas, seminomas are negative.

References

- 1. Bártková J, et. al. Tumour Biol. 8(1): 45-56 (1987)
- 2 Yamazaki, M. et al. Lab. Invest. 94: 1260-72 (2014)
- 3. Alfaro-Lira, S. et al. 2012. Int J Environ Res Public Health. 9: 1630-1648 (2012)
- 4. -
- 5. -

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