

**Mouse Anti-GGT1 (Gamma-glutamyltransferase 1) [E5]: MC0293, MC0293RTU7**

**Intended Use:** For Research Use Only

**Description:** Glutamyltransferase (GGT) from human kidney is a membrane-bound enzyme that transfers the gamma-glutamyl moiety of gamma-glutamyl compounds such as glutathione to an acceptor, which may be an amino acid or a di- or tripeptide or water. The principal functions of gGT may be hydrolysis and metabolism of glutathione. Various human gGT isoforms have been found. The molecular mass of gGT for normal kidney is 90kDa and gGT can be used as a renal cell marker.

**Specifications**

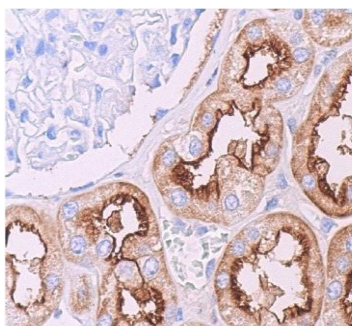
Clone: E5  
Source: Mouse  
Isotype: IgG1k  
Reactivity: Human  
Immunogen: Human GGT1 protein N-terminus aa 156-360  
Localization: Membrane, cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, ELISA, IF, IP, WB  
Package:

Description	Catalog No.	Size
GGT1 (Gamma-glutamyltransferase 1) Concentrated	MC0293	1 ml
GGT1 (Gamma-glutamyltransferase 1) Prediluted	MC0293RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Kidney  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 min Pressure Cooker or 30-60 min 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 kidney tissue stained with anti-GGT1 using DAB

**References:**

1. Detecting tumour-positive resection margins after oral cancer surgery by spraying a fluorescent tracer activated by gamma-glutamyltranspeptidase. Slooter MD, et al. Oral Oncol 78:1-7, 2018.
2. GGTsTOP increases migration of human periodontal ligament cells in vitro via reactive oxygen species pathway. Jiang Y, et al. Mol Med Rep 13:3813-20, 2016.
3. Enhanced sphingosine-1-phosphate receptor 2 expression underlies female CNS autoimmunity susceptibility. Cruz-Orengo L, et al. J Clin Invest 124:2571-84, 2014.
4. Bioengineered 3D human kidney tissue, a platform for the determination of nephrotoxicity. DesRochers TM, et al. PLoS One 8:e59219, 2013.